

REFERENCE:	Nova Bus Manuals
SECTION:	05 Rear Axle ZF AV-132
RS N°:	MQR 7621-183
EFFECTIVE IN PROD.:	L574 (2010OC19)

APPLICATION DEADLINE: 2014OC25

SUBJECT:	ZF Differential Thrust Washer, vehicle with off-center engine
JUSTIFICATION:	ZF Differential Thrust Washer Failure

LEVEL	DESCRIPTION	DIRECT CHARGES		TIME
		LABOUR	MATERIAL	
1	Differential oil sampling and copper level analysis	Nova Bus	–	15min
2	If non-compliant, proceed with ZF differential portal axle conversion	Nova Bus	Client*	14hrs

* The cost of the material will be reimbursed when claiming for this service document.

MATERIAL

QTY	PART N°	REV.	DESCRIPTION	REPLACES PART N°
LEVEL 1				
1 Note 1	N8900046	–	Oil-PEK oil sampling kit (Sample bottle and hose)	–
Note 2	N8900047	–	Oil pump	–
LEVEL 2 (only if required*)				
4	N8893152	–	Slot pin	–
4	N8893153	–	Slot pin	–
1	N8884283	–	O-ring	–
2	N8898604	–	Differential side gear	–
2	N8893147	–	Thrust washer	–

Materials in level 1 will be available within 49 days. To order, please contact Prevost Parts by phone at 1-800-771-6682, by fax at 1-888-668-2555 or by email at prevostparts.commandes@volvo.com. Specify document number, quantity of parts required and shipping address.

* The material identified in Level 2 is to be ordered only for vehicles that respect the criteria defined in Level 1. Order information will be provided by your Service Representative.

Note 1: ONE oil sampling kit with hose per vehicle is essential to avoid any cross-contamination of the samples and ensure the accuracy of the results.

Note 2: One oil pump can be used to sample multiple vehicles; therefore, ORDER THE QUANTITY OF PUMPS ACCORDING TO YOUR NEEDS.

DISPOSAL OF PARTS

REMOVED PARTS ARE:	DISCARDED	RETAINED *	* To be reimbursed, the parts must be retained and presented to your after-sales service representative at the time of the claim.
	–	Yes	

REVISION HISTORY

REV.	DATE	CHANGE DESCRIPTION	WRITTEN BY
NR	2013OC25	Initial release. Distint document (BS1876) for vehicles with centered engines.	Wilder Galiano

IMPORTANT: CERTAIN ORDERS MAY NOT INDICATE ALL UNITS.

CLIENT	ORDER	ROAD N°	VIN	REAR AXLE SERIAL N°	
Academy Bus - New Jersey	L333	1	N/A	2NVYL82U273000207	1371301
Academy Bus - New Jersey	L333	2	N/A	2NVYL82U473000208	1371304
Academy Bus - New Jersey	L333	3	N/A	2NVYL82U673000209	1371300
Academy Bus - New Jersey	L333	4	N/A	2NVYL82U273000210	1371303
Academy Bus - New Jersey	L333	5	N/A	2NVYL82U473000211	1371302
Academy Bus - New Jersey	L339	1	N/A	2NVYL82U483000047	1536898
Academy Bus - New Jersey	L339	2	N/A	2NVYL82U683000048	1536902
Academy Bus - New Jersey	L339	3	N/A	2NVYL82U883000049	1536899
Academy Bus - New Jersey	L339	4	N/A	2NVYL82U683000051	1536900
Academy Bus - New Jersey	L339	5	N/A	2NVYL82U883000052	1536897
Academy Bus - New Jersey	L340	1	N/A	2NVYL82U493000003	1746074
Academy Bus - New Jersey	L340	2	N/A	2NVYL82U693000004	1746073
Academy Bus - New Jersey	L340	3	N/A	2NVYL82U893000005	1746077
Academy Bus - New Jersey	L340	4	N/A	2NVYL82UX93000006	1746078
Academy Bus - New Jersey	L340	5	N/A	2NVYL82U193000007	1746076
BC Transit - BCT - British Columbia	L342	1	9232	2NVYL82U173000294	1402435
BC Transit - BCT - British Columbia	L342	2	9233	2NVYL82U373000295	1402432
BC Transit - BCT - British Columbia	L342	3	9234	2NVYL82U573000296	1402433
BC Transit - BCT - British Columbia	L342	4	9235	2NVYL82U773000297	1402438
BC Transit - BCT - British Columbia	L342	5	9236	2NVYL82U973000298	1402436
BC Transit - BCT - British Columbia	L342	6	9237	2NVYL82U073000299	1402434
BC Transit - BCT - British Columbia	L342	7	9238	2NVYL82U373000300	1402437
BC Transit - BCT - British Columbia	L342	8	9239	2NVYL82U573000301	1402439
BC Transit - BCT - British Columbia	L342	9	9240	2NVYL82U773000302	1402443
BC Transit - BCT - British Columbia	L342	10	9241	2NVYL82U973000303	1409137
BC Transit - BCT - British Columbia	L342	11	9242	2NVYL82U073000304	1402440
BC Transit - BCT - British Columbia	L342	12	9243	2NVYL82U273000305	1409141
BC Transit - BCT - British Columbia	L342	13	9244	2NVYL82U473000306	1402442
BC Transit - BCT - British Columbia	L342	14	9245	2NVYL82U673000307	1402441
BC Transit - BCT - British Columbia	L342	15	9246	2NVYL82U873000308	1409139
BC Transit - BCT - British Columbia	L342	16	9247	2NVYL82UX73000309	1409138
BC Transit - BCT - British Columbia	L342	17	9248	2NVYL82U673000310	1418287
BC Transit - BCT - British Columbia	L342	18	9249	2NVYL82U873000311	1418288
BC Transit - BCT - British Columbia	L342	19	9250	2NVYL82UX73000312	1409136
BC Transit - BCT - British Columbia	L342	20	9251	2NVYL82U173000313	1409140
BC Transit - BCT - British Columbia	L343	1	9252	2NVYL82U973000463	1504506
BC Transit - BCT - British Columbia	L343	2	9253	2NVYL82U073000464	1504501
BC Transit - BCT - British Columbia	L343	3	9254	2NVYL82U273000465	1504503
BC Transit - BCT - British Columbia	L343	4	9255	2NVYL82U473000466	1504508
BC Transit - BCT - British Columbia	L343	5	9256	2NVYL82U673000467	1504510

IMPORTANT: CERTAIN ORDERS MAY NOT INDICATE ALL UNITS.

CLIENT	ORDER	ROAD N°	VIN	REAR AXLE SERIAL N°	
BC Transit - BCT - British Columbia	L343	6	9257	2NVYL82U873000468	1504505
BC Transit - BCT - British Columbia	L343	7	9258	2NVYL82UX73000469	1504499
BC Transit - BCT - British Columbia	L343	8	9259	2NVYL82U673000470	1504500
BC Transit - BCT - British Columbia	L343	9	9260	2NVYL82U873000471	1504504
BC Transit - BCT - British Columbia	L343	10	9261	2NVYL82UX73000472	1510276
BC Transit - BCT - British Columbia	L343	11	9262	2NVYL82U173000473	1510277
BC Transit - BCT - British Columbia	L343	12	9263	2NVYL82U373000474	1510275
BC Transit - BCT - British Columbia	L343	13	9264	2NVYL82U573000475	1510271
BC Transit - BCT - British Columbia	L343	14	9265	2NVYL82U773000476	1510274
BC Transit - BCT - British Columbia	L343	15	9266	2NVYL82U973000477	1510272
BC Transit - BCT - British Columbia	L343	16	9267	2NVYL82U073000478	1510273
BC Transit - BCT - British Columbia	L414	1	9268	2NVYL82U983000299	1671221
BC Transit - BCT - British Columbia	L414	2	9269	2NVYL82U183000300	1671220
BC Transit - BCT - British Columbia	L414	3	9270	2NVYL82U383000301	1666480
BC Transit - BCT - British Columbia	L414	4	9271	2NVYL82U583000302	1666481
BC Transit - BCT - British Columbia	L414	5	9272	2NVYL82U783000303	1666488
BC Transit - BCT - British Columbia	L414	6	9273	2NVYL82U983000304	1666489
BC Transit - BCT - British Columbia	L414	7	9274	2NVYL82U083000305	1666487
BC Transit - BCT - British Columbia	L414	8	9275	2NVYL82U283000306	1666484
BC Transit - BCT - British Columbia	L414	9	9276	2NVYL82U483000307	1671223
BC Transit - BCT - British Columbia	L414	10	9277	2NVYL82U683000308	1666479
BC Transit - BCT - British Columbia	L414	11	9278	2NVYL82U883000309	1665104
BC Transit - BCT - British Columbia	L414	12	9279	2NVYL82U483000310	1649894
BC Transit - BCT - British Columbia	L414	13	9280	2NVYL82U683000311	1666486
BC Transit - BCT - British Columbia	L414	14	9281	2NVYL82U883000312	1666483
BC Transit - BCT - British Columbia	L414	15	9282	2NVYL82UX83000313	1665105
BC Transit - BCT - British Columbia	L414	16	9283	2NVYL82U183000314	1665106
BC Transit - BCT - British Columbia	L414	17	9284	2NVYL82U383000315	1665103
BC Transit - BCT - British Columbia	L414	18	9285	2NVYL82U583000316	1665102
BC Transit - BCT - British Columbia	L414	19	9286	2NVYL82U783000317	1665107
BC Transit - BCT - British Columbia	L414	20	9287	2NVYL82U983000318	1649891
BC Transit - BCT - British Columbia	L414	21	9288	2NVYL82U083000319	1671224
BC Transit - BCT - British Columbia	L414	22	9289	2NVYL82U783000320	1671338
BC Transit - BCT - British Columbia	L417	1	9290	2NVYL82U983000321	1671339
BC Transit - BCT - British Columbia	L417	2	9291	2NVYL82U083000322	1666485
BC Transit - BCT - British Columbia	L417	3	9292	2NVYL82U283000323	1671340
BC Transit - BCT - British Columbia	L417	4	9293	2NVYL82U483000324	1671337
BC Transit - BCT - British Columbia	L417	5	9294	2NVYL82U683000325	1671225
BC Transit - BCT - British Columbia	L417	6	9295	2NVYL82U883000326	1666482
BC Transit - BCT - British Columbia	L417	7	9296	2NVYL82UX83000327	1666490
BC Transit - BCT - British Columbia	L417	8	9297	2NVYL82U183000328	1671222

IMPORTANT: CERTAIN ORDERS MAY NOT INDICATE ALL UNITS.

CLIENT	ORDER	ROAD N°	VIN	REAR AXLE SERIAL N°	
BC Transit - BCT - British Columbia	L430	1	9301	2NVYL82U483000503	1763374
BC Transit - BCT - British Columbia	L430	2	9302	2NVYL82U683000504	1763375
BC Transit - BCT - British Columbia	L430	3	9303	2NVYL82U883000505	1763377
BC Transit - BCT - British Columbia	L430	4	9304	2NVYL82UX83000506	1763378
BC Transit - BCT - British Columbia	L430	5	9305	2NVYL82U183000507	1763379
BC Transit - BCT - British Columbia	L430	6	9306	2NVYL82U383000508	1764700
BC Transit - BCT - British Columbia	L430	7	9307	2NVYL82U583000509	1764697
BC Transit - BCT - British Columbia	L430	8	9308	2NVYL82U183000510	1764705
BC Transit - BCT - British Columbia	L430	9	9309	2NVYL82U383000511	1764707
BC Transit - BCT - British Columbia	L430	10	9310	2NVYL82U583000512	1764703
BC Transit - BCT - British Columbia	L430	11	9311	2NVYL82U783000513	1759791
BC Transit - BCT - British Columbia	L430	12	9312	2NVYL82U983000514	1759794
BC Transit - BCT - British Columbia	L430	13	9313	2NVYL82U083000515	1759795
BC Transit - BCT - British Columbia	L430	14	9314	2NVYL82U283000516	1763376
BC Transit - BCT - British Columbia	L430	15	9315	2NVYL82U483000517	1759793
BC Transit - BCT - British Columbia	L430	16	9316	2NVYL82U683000518	1764698
BC Transit - BCT - British Columbia	L430	17	9317	2NVYL82U883000519	1764699
BC Transit - BCT - British Columbia	L430	18	9318	2NVYL82U483000520	1764704
BC Transit - BCT - British Columbia	L458	1	9298	2NVYL82U683000521	1764701
BC Transit - BCT - British Columbia	L458	2	9299	2NVYL82U883000522	1764706
BC Transit - BCT - British Columbia	L458	3	9300	2NVYL82UX83000523	1764702
Belleville Transit - Ontario	L354	1	354-1	2NVYL82U983000089	1553491
Belleville Transit - Ontario	L357	1	357-1	2NVYL82U783000091	1553492
Bow Valley Transit - Alberta	L347	1	1	2NVYL82W083000175	1599720
Bow Valley Transit - Alberta	L347	2	2	2NVYL82W283000176	1599719
Bow Valley Transit - Alberta	L347	3	3	2NVYL82W483000177	1599721
Bow Valley Transit - Alberta	L347	4	4	2NVYL82W683000178	1599722
Brampton - Ontario	L348	1	701	2NVYL82U273000479	1507738
Brampton - Ontario	L348	2	702	2NVYL82U973000480	1507744
Brampton - Ontario	L348	3	703	2NVYL82U073000481	1507743
Brampton - Ontario	L348	4	704	2NVYL82U273000482	1418302
Brampton - Ontario	L348	5	705	2NVYL82U473000483	1507742
Brampton - Ontario	L348	6	706	2NVYL82U673000484	1507740
Brampton - Ontario	L348	7	707	2NVYL82U873000485	1507736
Brampton - Ontario	L348	8	708	2NVYL82UX73000486	1507735
Brampton - Ontario	L348	9	709	2NVYL82U173000487	1507737
Brampton - Ontario	L348	10	710	2NVYL82U373000488	1507741
Brampton - Ontario	L348	11	711	2NVYL82U573000489	1507739
Brampton - Ontario	L348	12	712	2NVYL82U173000490	1516669
Brampton - Ontario	L348	13	713	2NVYL82U373000491	1515442

IMPORTANT: CERTAIN ORDERS MAY NOT INDICATE ALL UNITS.

CLIENT	ORDER		ROAD N°	VIN	REAR AXLE SERIAL N°
Brampton - Ontario	L348	14	714	2NVYL82U573000492	1519797
Brampton - Ontario	L348	15	715	2NVYL82U773000493	1516672
Brampton - Ontario	L349	1	801	2NVYL82U283000094	1557814
Brampton - Ontario	L349	2	802	2NVYL82U483000095	1557819
Brampton - Ontario	L349	3	803	2NVYL82U683000096	1560349
Brampton - Ontario	L349	4	804	2NVYL82U883000097	1557811
Brampton - Ontario	L349	5	805	2NVYL82UX83000098	1557816
Brampton - Ontario	L349	6	806	2NVYL82U183000099	1557813
Brampton - Ontario	L349	7	807	2NVYL82U483000100	1557815
Brampton - Ontario	L349	8	808	2NVYL82U683000101	1557810
Brampton - Ontario	L349	9	809	2NVYL82U883000102	1557820
Brampton - Ontario	L349	10	810	2NVYL82UX83000103	1557818
Brampton - Ontario	L424	1	811	2NVYL82U783000463	1741347
Brampton - Ontario	L424	2	812	2NVYL82U983000464	1741351
Brampton - Ontario	L424	3	813	2NVYL82U083000465	1741350
Brampton - Ontario	L424	4	814	2NVYL82U283000466	1741356
Brampton - Ontario	L424	5	815	2NVYL82U483000467	1747345
Brampton - Ontario	L424	6	816	2NVYL82U683000468	1747346
Brampton - Ontario	L424	7	817	2NVYL82U883000469	1741354
Brampton - Ontario	L424	8	818	2NVYL82U483000470	1747798
Brampton - Ontario	L424	9	819	2NVYL82U683000471	1747799
Brampton - Ontario	L424	10	820	2NVYL82U883000472	1747797
Brampton - Ontario	L424	11	821	2NVYL82UX83000473	1707769
Brampton - Ontario	L424	12	822	2NVYL82U183000474	1747800
Brampton - Ontario	L424	13	823	2NVYL82U383000475	1741353
Brampton - Ontario	L424	14	824	2NVYL82U583000476	1741346
Brampton - Ontario	L424	15	825	2NVYL82U783000477	1741348
Brampton - Ontario	L424	16	826	2NVYL82U983000478	1747801
Brampton - Ontario	L424	17	827	2NVYL82U083000479	1747802
Brampton - Ontario	L425	1	901	2NVYL82U993000045	1800369
Brampton - Ontario	L425	2	902	2NVYL82U093000046	1803179
Brampton - Ontario	L425	3	903	2NVYL82U293000047	1793768
Brampton - Ontario	L425	4	904	2NVYL82U493000048	1792082
Brampton - Ontario	L425	5	905	2NVYL82U693000049	1797454
Brampton - Ontario	L425	6	906	2NVYL82U293000050	1797453
Brampton - Ontario	L425	7	907	2NVYL82U493000051	1797456
Brampton - Ontario	L425	8	908	2NVYL82U693000052	1801605
Brampton - Ontario	L425	9	909	2NVYL82U893000053	1800373
Brampton - Ontario	L425	10	910	2NVYL82UX93000054	1801607
Brampton - Ontario	L425	11	911	2NVYL82U193000055	1801609
Brampton - Ontario	L425	12	912	2NVYL82U393000056	1801608

IMPORTANT: CERTAIN ORDERS MAY NOT INDICATE ALL UNITS.

CLIENT	ORDER		ROAD N°	VIN	REAR AXLE SERIAL N°
Brampton - Ontario	L425	13	913	2NVYL82U593000057	1804654
Brampton - Ontario	L425	14	914	2NVYL82U793000058	1804653
Brampton - Ontario	L425	15	915	2NVYL82U993000059	1804652
Brampton - Ontario	L425	16	916	2NVYL82U593000060	1804651
Brantford - Ontario	L351	1	9071	2NVYL82U883000018	1516670
Brantford - Ontario	L351	2	9072	2NVYL82UX83000019	1519799
Brantford - Ontario	L351	3	9073	2NVYL82U683000020	1516671
Brantford - Ontario	L351	4	9074	2NVYL82U883000021	1516668
Brantford - Ontario	L351	5	9075	2NVYL82UX83000022	1519798
Brantford - Ontario	L422	1	9081	2NVYL82U183000524	1759502
Brantford - Ontario	L422	2	9082	2NVYL82U383000525	1774207
Brantford - Ontario	L422	3	9083	2NVYL82U583000526	1747344
Brantford - Ontario	L422	4	9084	2NVYL82U783000527	1774209
CMBC (TransLink) - British Columbia	L301	1	9602	2NVYL82U373000216	1364139
CMBC (TransLink) - British Columbia	L301	2	9603	2NVYL82U573000217	1364137
CMBC (TransLink) - British Columbia	L301	3	9604	2NVYL82U773000218	1373791
CMBC (TransLink) - British Columbia	L301	4	9605	2NVYL82U973000219	1373792
CMBC (TransLink) - British Columbia	L301	5	9606	2NVYL82U573000220	1373789
CMBC (TransLink) - British Columbia	L301	6	9607	2NVYL82U773000221	1373790
CMBC (TransLink) - British Columbia	L301	7	9608	2NVYL82U973000222	1373794
CMBC (TransLink) - British Columbia	L301	8	9609	2NVYL82U073000223	1373793
CMBC (TransLink) - British Columbia	L301	9	9610	2NVYL82U273000224	1364132
CMBC (TransLink) - British Columbia	L301	10	9611	2NVYL82U473000225	1364138
CMBC (TransLink) - British Columbia	L301	11	9612	2NVYL82U673000226	1381572
CMBC (TransLink) - British Columbia	L301	12	9613	2NVYL82U873000227	1373778
CMBC (TransLink) - British Columbia	L301	13	9614	2NVYL82UX73000228	1373785
CMBC (TransLink) - British Columbia	L301	14	9615	2NVYL82U173000229	1373779
CMBC (TransLink) - British Columbia	L301	15	9616	2NVYL82U873000230	1373786
CMBC (TransLink) - British Columbia	L301	16	9617	2NVYL82UX73000231	1373781
CMBC (TransLink) - British Columbia	L301	17	9618	2NVYL82U173000232	1373783
CMBC (TransLink) - British Columbia	L301	18	9619	2NVYL82U373000233	1373787
CMBC (TransLink) - British Columbia	L301	19	9620	2NVYL82U573000234	1381406
CMBC (TransLink) - British Columbia	L301	20	9621	2NVYL82U773000235	1373795
CMBC (TransLink) - British Columbia	L301	21	9622	2NVYL82U973000236	1381408
CMBC (TransLink) - British Columbia	L301	22	9623	2NVYL82U073000237	1381405
CMBC (TransLink) - British Columbia	L301	23	9624	2NVYL82U273000238	1381407
CMBC (TransLink) - British Columbia	L301	24	9625	2NVYL82U473000239	1381404
CMBC (TransLink) - British Columbia	L301	25	9626	2NVYL82U073000240	1373780
CMBC (TransLink) - British Columbia	L301	26	9627	2NVYL82U273000241	1373784
CMBC (TransLink) - British Columbia	L301	27	9628	2NVYL82U473000242	1381574
CMBC (TransLink) - British Columbia	L301	28	9629	2NVYL82U673000243	1381577

IMPORTANT: CERTAIN ORDERS MAY NOT INDICATE ALL UNITS.

CLIENT	ORDER	ROAD N°	VIN	REAR AXLE SERIAL N°	
CMBC (TransLink) - British Columbia	L301	29	9630	2NVYL82U873000244	1381578
CMBC (TransLink) - British Columbia	L301	30	9631	2NVYL82UX73000245	1381575
CMBC (TransLink) - British Columbia	L301	31	9632	2NVYL82U173000246	1381409
CMBC (TransLink) - British Columbia	L301	32	9633	2NVYL82U373000247	1381573
CMBC (TransLink) - British Columbia	L301	33	9634	2NVYL82U573000248	1373782
CMBC (TransLink) - British Columbia	L301	34	9635	2NVYL82U773000249	1373788
CMBC (TransLink) - British Columbia	L301	35	9636	2NVYL82U373000250	1381571
CMBC (TransLink) - British Columbia	L301	36	9637	2NVYL82U573000251	1381568
CMBC (TransLink) - British Columbia	L301	37	9638	2NVYL82U773000252	1381570
CMBC (TransLink) - British Columbia	L301	38	9639	2NVYL82U973000253	1381576
CMBC (TransLink) - British Columbia	L301	39	9640	2NVYL82U073000254	1381569
CMBC (TransLink) - British Columbia	L301	40	9641	2NVYL82U273000255	1381566
CMBC (TransLink) - British Columbia	L301	41	9642	2NVYL82U473000256	1381567
CMBC (TransLink) - British Columbia	L301	42	9643	2NVYL82U673000257	1385702
CMBC (TransLink) - British Columbia	L301	43	9644	2NVYL82U873000258	1385558
CMBC (TransLink) - British Columbia	L301	44	9645	2NVYL82UX73000259	1385559
CMBC (TransLink) - British Columbia	L301	45	9646	2NVYL82U673000260	1385697
CMBC (TransLink) - British Columbia	L301	46	9647	2NVYL82U873000261	1385700
CMBC (TransLink) - British Columbia	L301	47	9648	2NVYL82UX73000262	1392520
CMBC (TransLink) - British Columbia	L301	48	9649	2NVYL82U173000263	1385561
CMBC (TransLink) - British Columbia	L302	1	9650	2NVYL82U273000336	1435949
CMBC (TransLink) - British Columbia	L302	2	9651	2NVYL82U473000337	1435944
CMBC (TransLink) - British Columbia	L302	3	9652	2NVYL82U673000338	1435946
CMBC (TransLink) - British Columbia	L302	4	9653	2NVYL82U873000339	1435945
CMBC (TransLink) - British Columbia	L302	5	9654	2NVYL82U473000340	1435947
CMBC (TransLink) - British Columbia	L302	6	9655	2NVYL82U673000341	1451271
CMBC (TransLink) - British Columbia	L302	7	9656	2NVYL82U873000342	1435948
CMBC (TransLink) - British Columbia	L302	8	9657	2NVYL82UX73000343	1451276
CMBC (TransLink) - British Columbia	L302	9	9658	2NVYL82U173000344	1451273
CMBC (TransLink) - British Columbia	L302	10	9659	2NVYL82U373000345	1451279
CMBC (TransLink) - British Columbia	L302	11	9660	2NVYL82U573000346	1451270
CMBC (TransLink) - British Columbia	L302	12	9661	2NVYL82U773000347	1451272
CMBC (TransLink) - British Columbia	L302	13	9662	2NVYL82U973000348	1451269
CMBC (TransLink) - British Columbia	L302	14	9663	2NVYL82U073000349	1451274
CMBC (TransLink) - British Columbia	L302	15	9664	2NVYL82U773000350	1451280
CMBC (TransLink) - British Columbia	L302	16	9665	2NVYL82U973000351	1451275
CMBC (TransLink) - British Columbia	L302	17	9666	2NVYL82U073000352	1451278
CMBC (TransLink) - British Columbia	L302	18	9667	2NVYL82U273000353	1453170
CMBC (TransLink) - British Columbia	L302	19	9668	2NVYL82U473000354	1453172
CMBC (TransLink) - British Columbia	L302	20	9669	2NVYL82U673000355	1451277
CMBC (TransLink) - British Columbia	L302	21	9670	2NVYL82U873000356	1453570

IMPORTANT: CERTAIN ORDERS MAY NOT INDICATE ALL UNITS.

CLIENT	ORDER		ROAD N°	VIN	REAR AXLE SERIAL N°
CMBC (TransLink) - British Columbia	L302	22	9671	2NVYL82UX73000357	1453566
CMBC (TransLink) - British Columbia	L302	23	9672	2NVYL82U173000358	1453169
CMBC (TransLink) - British Columbia	L302	24	9673	2NVYL82U373000359	1453166
CMBC (TransLink) - British Columbia	L302	25	9674	2NVYL82UX73000360	1453565
CMBC (TransLink) - British Columbia	L302	26	9675	2NVYL82U173000361	1453571
CMBC (TransLink) - British Columbia	L302	27	9676	2NVYL82U373000362	1453567
CMBC (TransLink) - British Columbia	L302	28	9677	2NVYL82U573000363	1453569
CMBC (TransLink) - British Columbia	L302	29	9678	2NVYL82U773000364	1453174
CMBC (TransLink) - British Columbia	L302	30	9679	2NVYL82U973000365	1453167
CMBC (TransLink) - British Columbia	L302	31	9680	2NVYL82U073000366	1453568
CMBC (TransLink) - British Columbia	L302	32	9681	2NVYL82U273000367	1453563
CMBC (TransLink) - British Columbia	L302	33	9682	2NVYL82U473000368	1453168
CMBC (TransLink) - British Columbia	L302	34	9683	2NVYL82U673000369	1453171
CMBC (TransLink) - British Columbia	L302	35	9684	2NVYL82U273000370	1453173
CMBC (TransLink) - British Columbia	L302	36	9685	2NVYL82U473000371	1453562
CMBC (TransLink) - British Columbia	L302	37	9686	2NVYL82U673000372	1453564
CMBC (TransLink) - British Columbia	L302	38	9687	2NVYL82U873000373	1459614
CMBC (TransLink) - British Columbia	L302	39	9688	2NVYL82UX73000374	1453175
CMBC (TransLink) - British Columbia	L302	40	9689	2NVYL82U173000375	1459609
CMBC (TransLink) - British Columbia	L302	41	9690	2NVYL82U373000376	1459612
CMBC (TransLink) - British Columbia	L302	42	9691	2NVYL82U573000377	1459611
CMBC (TransLink) - British Columbia	L302	43	9692	2NVYL82U773000378	1459610
CMBC (TransLink) - British Columbia	L302	44	9693	2NVYL82U973000379	1459613
CMBC (TransLink) - British Columbia	L302	45	9694	2NVYL82U573000380	1424236
CMBC (TransLink) - British Columbia	L302	46	9695	2NVYL82U773000381	1471698
CMBC (TransLink) - British Columbia	L302	47	9696	2NVYL82U973000382	1424238
CMBC (TransLink) - British Columbia	L302	48	9697	2NVYL82U073000383	1474242
CMBC (TransLink) - British Columbia	L302	49	9698	2NVYL82U273000384	1474245
CMBC (TransLink) - British Columbia	L302	50	9699	2NVYL82U473000385	1474241
CMBC (TransLink) - British Columbia	L302	51	9701	2NVYL82U673000386	1474252
CMBC (TransLink) - British Columbia	L302	52	9702	2NVYL82U873000387	1474243
CMBC (TransLink) - British Columbia	L302	53	9703	2NVYL82UX73000388	1424233
CMBC (TransLink) - British Columbia	L302	54	9704	2NVYL82U173000389	1474251
CMBC (TransLink) - British Columbia	L302	55	9705	2NVYL82U873000390	1471697
CMBC (TransLink) - British Columbia	L302	56	9706	2NVYL82UX73000391	1424235
CMBC (TransLink) - British Columbia	L317	1	9601	2NVYL82U973000155	1364136
CMBC (TransLink) - British Columbia	L341	1	V9707	2NVYL82U373000412	1474249
CMBC (TransLink) - British Columbia	L341	2	V9708	2NVYL82U573000413	1474246
CMBC (TransLink) - British Columbia	L341	3	V9709	2NVYL82U773000414	1474247
CMBC (TransLink) - British Columbia	L341	4	V9710	2NVYL82U973000415	1474248
CMBC (TransLink) - British Columbia	L341	5	V9711	2NVYL82U073000416	1474244

IMPORTANT: CERTAIN ORDERS MAY NOT INDICATE ALL UNITS.

CLIENT	ORDER	ROAD N°	VIN	REAR AXLE SERIAL N°	
CMBC (TransLink) - British Columbia	L341	6	V9712	2NVYL82U273000417	1471702
CMBC (TransLink) - British Columbia	L341	7	V9713	2NVYL82U473000418	1471701
CMBC (TransLink) - British Columbia	L341	8	V9714	2NVYL82U673000419	1474250
CMBC (TransLink) - British Columbia	L341	9	V9715	2NVYL82U273000420	1471700
CMBC (TransLink) - British Columbia	L341	10	V9716	2NVYL82U473000421	1471699
CMBC (TransLink) - British Columbia	L341	11	V9717	2NVYL82U673000422	1478178
CMBC (TransLink) - British Columbia	L341	12	V9718	2NVYL82U873000423	1478174
CMBC (TransLink) - British Columbia	L341	13	V9719	2NVYL82UX73000424	1478179
CMBC (TransLink) - British Columbia	L341	14	V9720	2NVYL82U173000425	1478171
CMBC (TransLink) - British Columbia	L341	15	V9721	2NVYL82U373000426	1478176
CMBC (TransLink) - British Columbia	L341	16	V9722	2NVYL82U573000427	1478172
CMBC (TransLink) - British Columbia	L341	17	V9723	2NVYL82U773000428	1478168
CMBC (TransLink) - British Columbia	L341	18	V9724	2NVYL82U973000429	1478173
CMBC (TransLink) - British Columbia	L341	19	V9725	2NVYL82U573000430	1478180
CMBC (TransLink) - British Columbia	L380	1	9726	2NVYL82U483000209	1621571
CMBC (TransLink) - British Columbia	L380	2	9727	2NVYL82U083000210	1621570
CMBC (TransLink) - British Columbia	L380	3	9728	2NVYL82U283000211	1616119
CMBC (TransLink) - British Columbia	L380	4	9729	2NVYL82U483000212	1616120
CMBC (TransLink) - British Columbia	L380	5	9730	2NVYL82U683000213	1616118
CMBC (TransLink) - British Columbia	L380	6	9731	2NVYL82U883000214	1616122
CMBC (TransLink) - British Columbia	L380	7	9732	2NVYL82UX83000215	1616117
CMBC (TransLink) - British Columbia	L380	8	9733	2NVYL82U183000216	1616121
CMBC (TransLink) - British Columbia	L380	9	9734	2NVYL82U383000217	1636768
CMBC (TransLink) - British Columbia	L380	10	9735	2NVYL82U583000218	1636772
CMBC (TransLink) - British Columbia	L380	11	9736	2NVYL82U783000219	1636770
CMBC (TransLink) - British Columbia	L380	12	9737	2NVYL82U383000220	1636763
CMBC (TransLink) - British Columbia	L380	13	9738	2NVYL82U583000221	1628098
CMBC (TransLink) - British Columbia	L380	14	9739	2NVYL82U783000222	1628097
CMBC (TransLink) - British Columbia	L380	15	9740	2NVYL82U983000223	1621573
CMBC (TransLink) - British Columbia	L380	16	9741	2NVYL82U083000224	1621572
CMBC (TransLink) - British Columbia	L380	17	9742	2NVYL82U283000225	1628095
CMBC (TransLink) - British Columbia	L380	18	9743	2NVYL82U483000226	1628100
CMBC (TransLink) - British Columbia	L380	19	9744	2NVYL82U683000227	1618785
CMBC (TransLink) - British Columbia	L380	20	9745	2NVYL82U883000228	1618789
CMBC (TransLink) - British Columbia	L380	21	9746	2NVYL82UX83000229	1632508
CMBC (TransLink) - British Columbia	L380	22	9747	2NVYL82U683000230	1636767
CMBC (TransLink) - British Columbia	L381	1	9748	2NVYL82U383000329	1677214
CMBC (TransLink) - British Columbia	L381	2	9749	2NVYL82UX83000330	1677223
CMBC (TransLink) - British Columbia	L381	3	9750	2NVYL82U183000331	1677213
CMBC (TransLink) - British Columbia	L381	4	9751	2NVYL82U383000332	1677217

IMPORTANT: CERTAIN ORDERS MAY NOT INDICATE ALL UNITS.

CLIENT	ORDER	ROAD N°	VIN	REAR AXLE SERIAL N°	
CMBC (TransLink) - British Columbia	L381	5	9752	2NVYL82U583000333	1677222
CMBC (TransLink) - British Columbia	L381	6	9753	2NVYL82U783000334	1677219
CMBC (TransLink) - British Columbia	L381	7	9754	2NVYL82U983000335	1677220
CMBC (TransLink) - British Columbia	L381	8	9755	2NVYL82U083000336	1677224
CMBC (TransLink) - British Columbia	L381	9	9756	2NVYL82U283000337	1677221
CMBC (TransLink) - British Columbia	L381	10	9757	2NVYL82U483000338	1677218
CMBC (TransLink) - British Columbia	L381	11	9758	2NVYL82U683000339	1682525
CMBC (TransLink) - British Columbia	L381	12	9759	2NVYL82U283000340	1679820
CMBC (TransLink) - British Columbia	L381	13	9760	2NVYL82U483000341	1582520
CMBC (TransLink) - British Columbia	L381	14	9761	2NVYL82U683000342	1682521
CMBC (TransLink) - British Columbia	L381	15	9762	2NVYL82U883000343	1679821
CMBC (TransLink) - British Columbia	L381	16	9763	2NVYL82UX83000344	1679822
CMBC (TransLink) - British Columbia	L381	17	9764	2NVYL82U183000345	1682523
CMBC (TransLink) - British Columbia	L381	18	9765	2NVYL82U383000346	1682522
CMBC (TransLink) - British Columbia	L381	19	9766	2NVYL82U583000347	1682524
CMBC (TransLink) - British Columbia	L381	20	9767	2NVYL82U783000348	1679823
CMBC (TransLink) - British Columbia	L381	21	9768	2NVYL82U983000349	1691638
CMBC (TransLink) - British Columbia	L381	22	9769	2NVYL82U583000350	1691639
CMBC (TransLink) - British Columbia	L381	23	9770	2NVYL82U783000351	1679819
CMBC (TransLink) - British Columbia	L381	24	9771	2NVYL82U983000352	1679824
CMBC (TransLink) - British Columbia	L381	25	9772	2NVYL82U083000353	1674582
CMBC (TransLink) - British Columbia	L381	26	9773	2NVYL82UX83000361	1691050
CMBC (TransLink) - British Columbia	L381	27	9774	2NVYL82U183000362	1691051
CMBC (TransLink) - British Columbia	L381	28	9775	2NVYL82U383000363	1691054
CMBC (TransLink) - British Columbia	L381	29	9776	2NVYL82U583000364	1691052
CMBC (TransLink) - British Columbia	L381	30	9777	2NVYL82U783000365	1691055
CMBC (TransLink) - British Columbia	L381	31	9778	2NVYL82U983000366	1691637
CMBC (TransLink) - British Columbia	L381	32	9779	2NVYL82U083000367	1691640
CMBC (TransLink) - British Columbia	L381	33	9780	2NVYL82U283000368	1691636
CMBC (TransLink) - British Columbia	L381	34	9781	2NVYL82U483000369	1685500
CMBC (TransLink) - British Columbia	L382	1	9782	2NVYL82U083000370	1685503
CMBC (TransLink) - British Columbia	L382	2	9783	2NVYL82U283000371	1674579
CMBC (TransLink) - British Columbia	L382	3	9784	2NVYL82U483000372	1674583
CMBC (TransLink) - British Columbia	L382	4	9785	2NVYL82U683000373	1674584
CMBC (TransLink) - British Columbia	L382	5	9786	2NVYL82U883000374	1674580
CMBC (TransLink) - British Columbia	L382	6	9787	2NVYL82UX83000375	1674581
CMBC (TransLink) - British Columbia	L382	7	9788	2NVYL82U183000376	1677216
CMBC (TransLink) - British Columbia	L382	8	9789	2NVYL82U383000377	1677215
CMBC (TransLink) - British Columbia	L382	9	9790	2NVYL82U583000378	1685499
CMBC (TransLink) - British Columbia	L382	10	9791	2NVYL82U783000379	1685504

IMPORTANT: CERTAIN ORDERS MAY NOT INDICATE ALL UNITS.

CLIENT	ORDER	ROAD N°	VIN	REAR AXLE SERIAL N°
CMBC (West Vancouver) - British Columbia	L345 1	701	2NVYL82U373000264	1385698
CMBC (West Vancouver) - British Columbia	L345 2	702	2NVYL82U573000265	1392525
CMBC (West Vancouver) - British Columbia	L401 1	801	2NVYL82U983000206	1589154
CMBC (West Vancouver) - British Columbia	L401 2	802	2NVYL82U083000207	1621575
CMBC (West Vancouver) - British Columbia	L401 3	803	2NVYL82U283000208	1621574
Fredericton - New Brunswick	L282 1	8071	2NVYL82UX73000097	1299642
Fredericton - New Brunswick	L282 2	8072	2NVYL82U173000098	1299641
Fredericton - New Brunswick	L369 1	N/A (SOLD TO	2NVYL82U693000018	1707770
Fredericton - New Brunswick	L375 1	8081	2NVYL82U983000142	1584670
Gaylord Opryland - Nashville, Tennessee	L353 1	N/A	2NVYL82U583000008	1504507
Gaylord Opryland - Nashville, Tennessee	L353 2	N/A	2NVYL82U783000009	1504502
Gaylord Opryland - Nashville, Tennessee	L353 3	N/A	2NVYL82U383000010	1504509
Grand River Transit - GRT - Ontario	L337 1	2701	2NVYL82U373000281	1385701
Grand River Transit - GRT - Ontario	L337 2	2702	2NVYL82U573000282	1385699
Grand River Transit - GRT - Ontario	L337 3	2703	2NVYL82U773000283	1392522
Grand River Transit - GRT - Ontario	L337 4	2704	2NVYL82U973000284	1385560
Grand River Transit - GRT - Ontario	L337 5	2705	2NVYL82U073000285	1385557
Grand River Transit - GRT - Ontario	L337 6	2706	2NVYL82U273000286	1392521
Grand River Transit - GRT - Ontario	L337 7	2707	2NVYL82U473000287	1385562
Grand River Transit - GRT - Ontario	L337 8	2708	2NVYL82U673000288	1392518
Grand River Transit - GRT - Ontario	L337 9	2709	2NVYL82U473000290	1392519
Grand River Transit - GRT - Ontario	L337 10	2710	2NVYL82U673000291	1392523
Grand River Transit - GRT - Ontario	L337 11	2711	2NVYL82U873000292	1392524
Grand River Transit - GRT - Ontario	L337 12	2712	2NVYL82UX73000293	1335837
Grand River Transit - GRT - Ontario	L338 1	2713	2NVYL82U773000431	1478170
Grand River Transit - GRT - Ontario	L338 2	2714	2NVYL82U973000432	1478169
Grand River Transit - GRT - Ontario	L338 3	2715	2NVYL82U073000433	1478177
Grand River Transit - GRT - Ontario	L338 4	2716	2NVYL82U273000434	1478175
Grand River Transit - GRT - Ontario	L338 5	2717	2NVYL82U473000435	1424237
Grand River Transit - GRT - Ontario	L338 6	2718	2NVYL82U673000436	1424234
Grand River Transit - GRT - Ontario	L338 7	2719	2NVYL82U873000437	1483217
Grand River Transit - GRT - Ontario	L338 8	2720	2NVYL82UX73000438	1483212
Grand River Transit - GRT - Ontario	L338 9	2721	2NVYL82U173000439	1483213
Grand River Transit - GRT - Ontario	L338 10	2722	2NVYL82U873000440	1483216
Grand River Transit - GRT - Ontario	L338 11	2723	2NVYL82UX73000441	1483214
Grand River Transit - GRT - Ontario	L338 12	2724	2NVYL82U173000442	1483215
Grand River Transit - GRT - Ontario	L404 1	8007	2NVYL82U683000244	1636764
Grand River Transit - GRT - Ontario	L404 2	8008	2NVYL82U883000245	1636771
Grand River Transit - GRT - Ontario	L404 3	8009	2NVYL82UX83000246	1636774
Grand River Transit - GRT - Ontario	L404 4	8010	2NVYL82U183000247	1636773
Grand River Transit - GRT - Ontario	L404 5	8011	2NVYL82U383000248	1636765

IMPORTANT: CERTAIN ORDERS MAY NOT INDICATE ALL UNITS.

CLIENT	ORDER		ROAD N°	VIN	REAR AXLE SERIAL N°
Grand River Transit - GRT - Ontario	L404	6	8012	2NVYL82U583000249	1636769
Grand River Transit - GRT - Ontario	L404	7	8013	2NVYL82U183000250	1636766
Grand River Transit - GRT - Ontario	L404	8	8014	2NVYL82U383000251	1642135
Grand River Transit - GRT - Ontario	L404	9	8015	2NVYL82U583000252	1642136
Grand River Transit - GRT - Ontario	L404	10	8016	2NVYL82U783000253	1642134
Grand River Transit - GRT - Ontario	L404	11	8017	2NVYL82U983000254	1642138
Grand River Transit - GRT - Ontario	L404	12	8018	2NVYL82U083000255	1642137
Grand River Transit - GRT - Ontario	L404	13	8019	2NVYL82U283000256	1642133
Grand River Transit - GRT - Ontario	L404	14	8020	2NVYL82U483000257	1645966
Grand River Transit - GRT - Ontario	L404	15	8021	2NVYL82U683000258	1645965
Grand River Transit - GRT - Ontario	L405	1	8022	2NVYL82W683000259	1628099
Grand River Transit - GRT - Ontario	L405	2	8023	2NVYL82W283000260	1618788
Grand River Transit - GRT - Ontario	L405	3	8024	2NVYL82W483000261	1618790
Grand River Transit - GRT - Ontario	L405	4	8025	2NVYL82W683000262	1628096
Grand River Transit - GRT - Ontario	L405	5	8026	2NVYL82W883000263	1618787
Grand River Transit - GRT - Ontario	L405	6	8027	2NVYL82WX83000264	1618786
Guelph - Ontario	L397	1	195	2NVYL82U183000152	1580720
Guelph - Ontario	L397	2	196	2NVYL82U383000153	1580718
Guelph - Ontario	L397	3	197	2NVYL82U583000154	1584725
Guelph - Ontario	L397	4	198	2NVYL82U783000155	1584724
Guelph - Ontario	L418	1	199	2NVYL82U883000410	1707772
Guelph - Ontario	L418	2	200	2NVYL82UX83000411	1707771
Guelph - Ontario	L418	3	201	2NVYL82U183000412	1707773
Guelph - Ontario	L418	4	202	2NVYL82U383000413	1707765
Guelph - Ontario	L418	5	203	2NVYL82U583000414	1707767
Guelph - Ontario	L418	6	204	2NVYL82U783000415	1707763
Guelph - Ontario	L418	7	205	2NVYL82U983000416	1707762
Guelph - Ontario	L431	1	206	2NVYL82U793000030	1797458
Guelph - Ontario	L431	2	207	2NVYL82U993000031	1792081
Guelph - Ontario	L431	3	208	2NVYL82U093000032	1792083
Guelph - Ontario	L431	4	209	2NVYL82U293000033	1803182
Guelph - Ontario	L431	5	210	2NVYL82U493000034	1803183
Guelph - Ontario	L431	6	211	2NVYL82U693000035	1803181
Guelph - Ontario	L431	7	212	2NVYL82U893000036	1803178
Guelph - Ontario	L431	8	213	2NVYL82UX93000037	1797455
Guelph - Ontario	L431	9	214	2NVYL82U193000038	1797457
Guelph - Ontario	L431	10	215	2NVYL82U393000039	1800368
Guelph - Ontario	L431	11	216	2NVYL82UX93000040	1803180
Guelph - Ontario	L431	12	217	2NVYL82U193000041	1801604
Guelph - Ontario	L431	13	218	2NVYL82U393000042	1801606
Guelph - Ontario	L431	14	219	2NVYL82U593000043	1800370

IMPORTANT: CERTAIN ORDERS MAY NOT INDICATE ALL UNITS.
--

CLIENT	ORDER		ROAD N°	VIN	REAR AXLE SERIAL N°
Guelph - Ontario	L431	15	220	2NVYL82U793000044	1800371
Leduc Bus Line - Ontario	L346	1	N/A	2NVYL82UX83000053	1536901
Moncton (Codiac) - New Brunswick	L334	1	600	2NVYL82U673000212	1364133
Moncton (Codiac) - New Brunswick	L334	2	601	2NVYL82U873000213	1364140
Moncton (Codiac) - New Brunswick	L334	3	602	2NVYL82UX73000214	1364135
Moncton (Codiac) - New Brunswick	L334	4	603	2NVYL82U173000215	1364134
Moose Jaw - Saskatchewan	L344	1	17	2NVYL82U083000143	1584718
Moose Jaw - Saskatchewan	L344	2	18	2NVYL82U283000144	1580719
Moose Jaw - Saskatchewan	L344	3	20	2NVYL82U483000145	1580717
Moose Jaw - Saskatchewan	L344	4	24	2NVYL82U683000146	1580722
Moose Jaw - Saskatchewan	L344	5	25	2NVYL82U883000147	1580721
Peterborough - Ontario	L411	1	36	2NVYL82U283000354	1679890
Peterborough - Ontario	L411	2	37	2NVYL82U483000355	1679895
Peterborough - Ontario	L411	3	38	2NVYL82U683000356	1679896
Peterborough - Ontario	L411	4	39	2NVYL82U883000357	1679894
Peterborough - Ontario	L411	5	40	2NVYL82UX83000358	1679891
Peterborough - Ontario	L411	6	41	2NVYL82U683000423	1741358
Peterborough - Ontario	L411	7	42	2NVYL82U883000424	1707766
Peterborough - Ontario	L411	8	43	2NVYL82UX83000425	1741349
Peterborough - Ontario	L411	9	44	2NVYL82U183000426	1741357
Peterborough - Ontario	L411	10	45	2NVYL82U383000427	1741355
Peterborough - Ontario	L411	11	46	2NVYL82U983000528	1765602
Peterborough - Ontario	L411	12	47	2NVYL82U083000529	1741360
Peterborough - Ontario	L411	13	48	2NVYL82U783000530	1741359
Peterborough - Ontario	L411	14	49	2NVYL82U983000531	1747343
Peterborough - Ontario	L411	15	50	2NVYL82U083000532	1741363
Regina - Saskatchewan	L304	1	611	2NVYL82U373000457	1418301
Regina - Saskatchewan	L304	2	612	2NVYL82U573000458	1418303
Regina - Saskatchewan	L304	3	613	2NVYL82U773000459	1418306
Regina - Saskatchewan	L304	4	614	2NVYL82U373000460	1418304
Regina - Saskatchewan	L304	5	615	2NVYL82U573000461	1483223
Regina - Saskatchewan	L304	6	616	2NVYL82U773000462	1483222
Regina - Saskatchewan	L459	1	617	2NVYL82UX83000537	1765603
Regina - Saskatchewan	L459	2	618	2NVYL82U183000538	1765607
Regina - Saskatchewan	L459	3	619	2NVYL82U383000539	1774205
Regina - Saskatchewan	L459	4	620	2NVYL82UX83000540	1774204
Regina - Saskatchewan	L459	5	621	2NVYL82U183000541	1774208
Regina - Saskatchewan	L459	6	622	2NVYL82U383000542	1774206
Regina - Saskatchewan	L459	7	623	2NVYL82U583000543	1775720
Regina - Saskatchewan	L459	8	624	2NVYL82U783000544	1775719
St. John's - Newfoundland	L352	1	857	2NVYL82U683000003	1418305
St. John's - Newfoundland	L352	2	858	2NVYL82U883000004	1483220
St. John's - Newfoundland	L352	3	859	2NVYL82UX83000005	1483218

IMPORTANT: CERTAIN ORDERS MAY NOT INDICATE ALL UNITS.
--

CLIENT	ORDER		ROAD N°	VIN	REAR AXLE SERIAL N°
St. John's - Newfoundland	L352	4	860	2NVYL82U183000006	1483221
St. John's - Newfoundland	L352	5	861	2NVYL82U383000007	1483219
St. John's - Newfoundland	L403	1	962	2NVYL82U993000014	1707764
St. John's - Newfoundland	L403	2	963	2NVYL82U093000015	1707768
St. John's - Newfoundland	L403	3	964	2NVYL82U293000016	1765606
St. John's - Newfoundland	L403	4	965	2NVYL82U493000017	1759501
Stratford - Ontario	L371	1	N/A	2NVYL82U183000104	1557817
Strathcona County Transit - Alberta	L303	1	930	2NVYL82U073000156	1335867
Strathcona County Transit - Alberta	L303	2	931	2NVYL82U273000157	1335870
Strathcona County Transit - Alberta	L303	3	932	2NVYL82U473000158	1335871
Strathcona County Transit - Alberta	L303	4	933	2NVYL82U673000159	1335868
Strathcona County Transit - Alberta	L303	5	934	2NVYL82U273000160	1335866
Strathcona County Transit - Alberta	L303	6	935	2NVYL82U473000161	1335869
Strathcona County Transit - Alberta	L303	7	936	2NVYL82U673000162	1335865
Strathcona County Transit - Alberta	L383	1	N/A	2NVYL82U083000269	1649892
Strathcona County Transit - Alberta	L406	1	937	2NVYL82U783000270	1649889
Strathcona County Transit - Alberta	L406	2	938	2NVYL82U983000271	1649890
Strathcona County Transit - Alberta	L406	3	939	2NVYL82U083000272	1649893
Strathcona County Transit - Alberta	L407	1	940	2NVYL82W083000273	1654441
Strathcona County Transit - Alberta	L407	2	941	2NVYL82W283000274	1654443
Strathcona County Transit - Alberta	L407	3	942	2NVYL82W483000275	1654442
Strathcona County Transit - Alberta	L407	4	943	2NVYL82W683000276	1654444
Strathcona County Transit - Alberta	L457	1	944	2NVYL82U683000597	1796168
Strathcona County Transit - Alberta	L457	2	945	2NVYL82U883000598	1796169
Strathcona County Transit - Alberta	L457	3	946	2NVYL82UX83000599	1796165
Strathcona County Transit - Alberta	L457	4	947	2NVYL82U283000600	1796167
Strathcona County Transit - Alberta	L457	5	948	2NVYL82U483000601	1796164
Strathcona County Transit - Alberta	L457	6	949	2NVYL82U683000602	1796166
Sudbury - Ontario	L293	1	N/A	2NVYL82U673000128	1293264
Sudbury - Ontario	L293	2	N/A	2NVYL82U873000129	1314159
Sudbury - Ontario	L293	3	N/A	2NVYL82U473000130	1314160
Sudbury - Ontario	L293	4	N/A	2NVYL82U673000131	1314163
Sudbury - Ontario	L294	1	N/A	2NVYL82U873000132	1314161
Sudbury - Ontario	L294	2	N/A	2NVYL82UX73000133	1318174
Sudbury - Ontario	L385	1	781	2NVYL82U583000137	1584722
Sudbury - Ontario	L385	2	782	2NVYL82U783000138	1584717
Sudbury - Ontario	L386	1	785	2NVYL82U783000141	1584719
Sudbury - Ontario	L399	1	783	2NVYL82U983000139	1584721
Sudbury - Ontario	L399	2	784	2NVYL82U583000140	1584720
Thunder Bay - Ontario	L408	1	N/A	2NVYL82U283000239	1635568
Thunder Bay - Ontario	L408	2	N/A	2NVYL82U983000240	1635567
Thunder Bay - Ontario	L408	3	N/A	2NVYL82U083000241	1635564
Thunder Bay - Ontario	L408	4	N/A	2NVYL82U283000242	1635565

IMPORTANT: CERTAIN ORDERS MAY NOT INDICATE ALL UNITS.
--

CLIENT	ORDER		ROAD N°	VIN	REAR AXLE SERIAL N°
Thunder Bay - Ontario	L408	5	N/A	2NVYL82U483000243	1635566
Thunder Bay - Ontario	L453	1	N/A	2NVYL82U283000533	1741364
Thunder Bay - Ontario	L453	2	N/A	2NVYL82U483000534	1765604
Thunder Bay - Ontario	L453	3	N/A	2NVYL82U683000535	1765605
Timmins - Ontario	L426	1	N/A	2NVYL82U783000480	1746075
Timmins - Ontario	L426	2	N/A	2NVYL82U883000536	1715156
University of Alabama - Alabama	L295	1	7001	2NVYL82U173000134	1319150
University of Alabama - Alabama	L296	1	7002	2NVYL82U373000135	1319151
University of Alabama - Alabama	L296	2	7003	2NVYL82U573000136	1319152
University of Alabama - Alabama	L310	1	7004	2NVYL82U973000267	1390605
University of Alabama - Alabama	L310	2	7005	2NVYL82U073000268	1390604
University of Alabama - Alabama	L310	3	7006	2NVYL82U273000269	1390602
University of Alabama - Alabama	L310	4	7007	2NVYL82U973000270	1390606
University of Alabama - Alabama	L310	5	7008	2NVYL82U073000271	1390603
University of Alabama - Alabama	L310	6	7009	2NVYL82U273000272	1392636
University of Alabama - Alabama	L310	7	7010	2NVYL82U473000273	1392634
University of Alabama - Alabama	L310	8	7011	2NVYL82U673000274	1392639
University of Alabama - Alabama	L310	9	7012	2NVYL82U873000275	1392641
University of Alabama - Alabama	L310	10	7013	2NVYL82UX73000276	1392635
University of Alabama - Alabama	L311	1	7014	2NVYL82U173000277	1390607
University of Alabama - Alabama	L311	2	7015	2NVYL82U373000278	1392637
University of Alabama - Alabama	L311	3	7016	2NVYL82U573000279	1392640
University of Alabama - Alabama	L311	4	7017	2NVYL82U173000280	1392638
University of Colorado - Colorado	L336	1	N/A	2NVYL82U773000266	1385563
Whitehorse - Yukon	L423	1	N/A	2NVYL82U983000481	1746095
Whitehorse - Yukon	L423	2	N/A	2NVYL82U083000482	1792104
Woodstock - Ontario	L335	1	N/A	2NVYL82U083000093	1557809
Woodstock - Ontario	L419	1	N/A	2NVYL82U183000409	1707774

**WARNING**

Follow your internal safety procedures.

**NOTE**

Ensure that the rear axle serial number is indicated in this document

Required documents for each level of this document

LEVEL 1: INSPECT: oil sampling, fill in the documents in Annex A and B. Wait for instructions from your Nova Bus representative.

Take a first sample, then a second one at the latest possible opportunity before the next axle oil change.

Proceed with the instructions of LEVEL 1: INSPECT.

LEVEL 2 : INSTALL: fill in the form in annex C and take pictures of the defective components. Include the form and the pictures (in PDF and JPEG format) with your claim.

Samples received without a link to a claim will not be processed for analysis. Each vehicle covered by this bulletin, requires a separate claim.

PROCEDURE

LEVEL 1: INSPECT

1.1. Raise the vehicle.

**CAUTION**

For more information on the raising and lowering of the vehicle, refer to section 18: HOISTING AND TOWING of the Nova LFS maintenance manual. Respect your current internal safety procedures. Use the proper hoisting equipment for your safety.

- 1.2. Locate the differential oil filler screw, located on the street side of the portal drive.
- 1.3. Take a differential oil sample. Follow the sampling and documentation instructions included in the Oil-PEK oil sampling kit. See Annex A.
- 1.4. Lower the vehicle.
- 1.5. Proceed with the warranty claim for Level 1 of this service bulletin. Return the oil sample according to the established procedure. The oil sample will serve to support your claim.
 - 1.5.1. Send the samples in the same way as a returned part under warranty.
- 1.6. Oil sample testing will be conducted by ZF. Based on the results, ZF will determine whether to proceed with LEVEL 2: INSTALL. Your service representative will inform you whether further action is required. In the interim, the vehicle can remain in service.

LEVEL 2: INSTALL

2.1. Raise the vehicle.

**CAUTION**

For more information on the raising and lowering of the vehicle, refer to section 18: HOISTING AND TOWING of the Nova LFS maintenance manual. Respect your current internal safety procedures. Use the proper hoisting equipment for your safety.

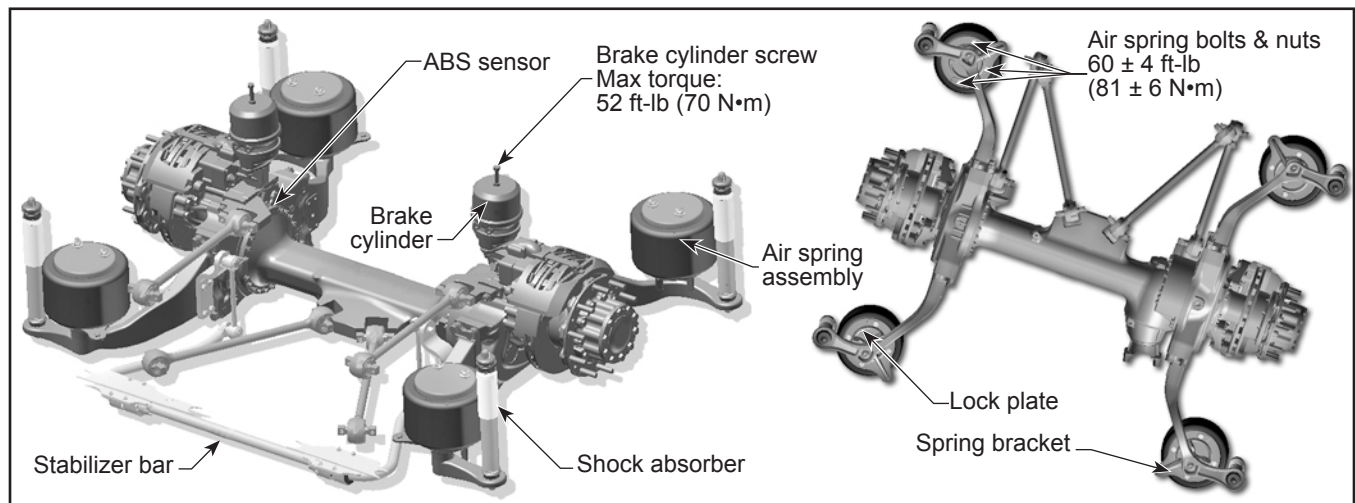


Figure 1 - Rear Axle AV 132 (ZF) Assembly

- 2.2. Use an additional lifting support under the axle housing to secure the rear axle in a slightly off-center position towards the differential.
- 2.3. Completely loosen the rear wheel hex nuts, but do not fully remove the nut in the 12 o'clock position.
- 2.4. Support the wheel with a wheel lift, remove the remaining hex nut, and remove the wheel.
- 2.5. Support the interior wheel with a wheel lift. loosen and remove the hex nuts and remove the wheel.
- 2.6. Loosen the screw plug of the level check hole, located on the street side of the portal drive, and check the oil level. See Figure 2.



Figure 2 - Oil Level Check



WARNING

Some oil may escape. Waste oil must be disposed of according to local environmental regulations.

- 2.7 Enter the oil level in ANNEX B: DOCUMENTATION SHEET, at the end of this document.
- 2.8. Open the screw plug of both portal drives (oil drain holes) located on the underside of the axle, and drain the oil.

**WARNING**

Waste oil must be disposed of according to local environmental regulations.

- 2.9. Inspect the screw plugs (and magnetic plugs). Note any chips or abrasions.
- 2.10. Loosen the bolts from the mud flap cover, and remove the cover. See Figure 3.



Figure 3 - Releasing Cover

- 2.11. Release the pressure from both rear suspension air spring bellows.

**NOTE**

Pressure must be released from both air spring bellows prior to proceeding to the next steps.

- 2.12. Loosen the lower screws of both air springs.
- 2.13. Manually open the spring brake actuator on the brake cylinder.
- 2.14. Loosen the screws at the potentiometer (wear indicator) and pull off the releasing plug.
- 2.15. Loosen the cylindrical screw on the ABS sensor, and remove the ABS sensor.
- 2.16. Loosen the screws on the brake cylinder and remove the brake cylinder carrier plate. Loosen the locknuts and remove the brake cylinder. See Figure 4.

2.17. Fix the brake cylinder within the wheelhouse with a tie wrap, wire, or rope, and cover its opening. Protect the mounting face of the brake caliper with an adequate cover or cloth. See Figure 4.

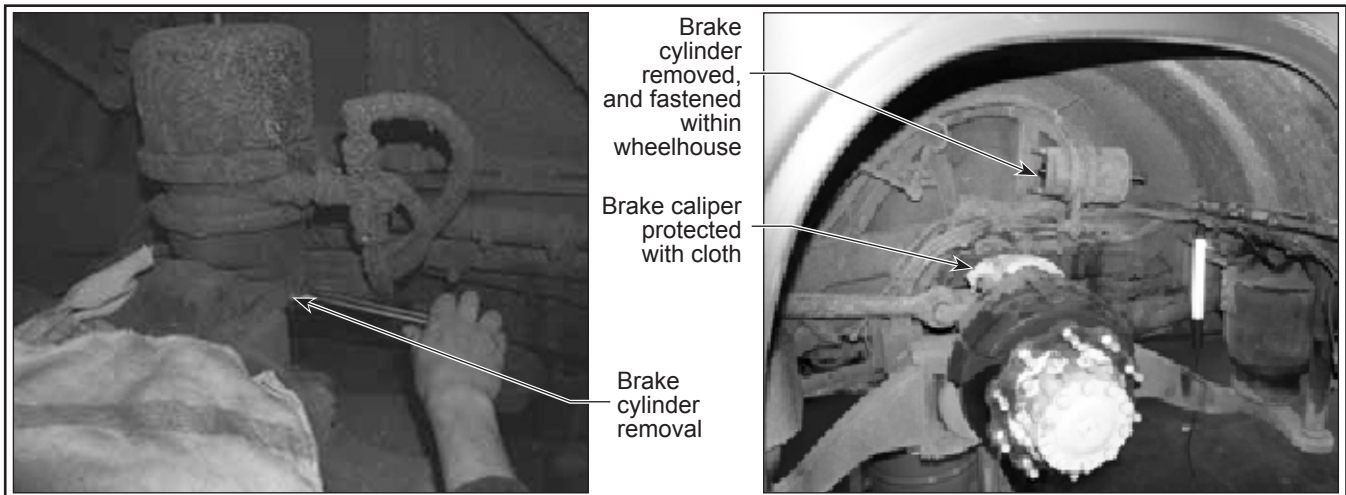


Figure 4 - Brake Cylinder Removal

- 2.18. Remove the screws from the stabilizer bar in order to release it.
- 2.19. Loosen the screws on the fixing plate for the compressed air lines.
- 2.20. With a tie wrap, wire, or rope, temporarily fasten the fixing plate and the ABS sensor in a suitable location in the wheelhouse.
- 2.21. Raise the axle until the radius rod is in a horizontal position. See Figure 5. Loosen the threaded connection between the radius rod and the bracket.

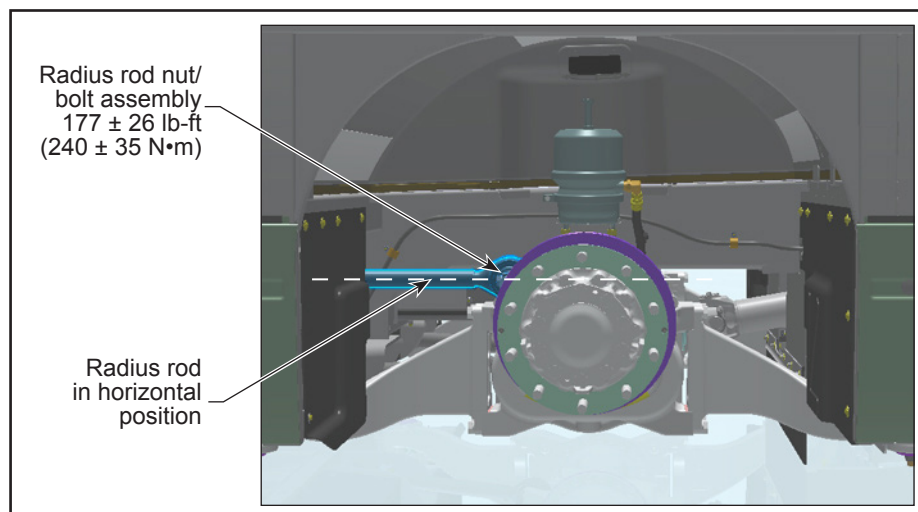


Figure 5 - Radius Rod

- 2.22. Loosen the portal drive nuts from the street side portal, except for the nuts in the 6 and 12 o'clock positions. See Figure 6.

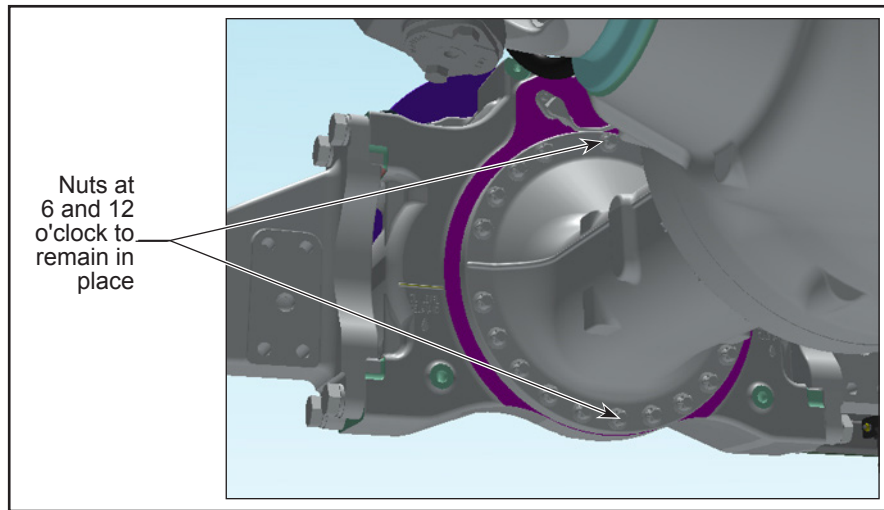


Figure 6 - Portal Drive Mounting Nuts

- 2.23. Secure the portal drive onto the lifting bracket (Nova # 19506090 or equivalent) and lift truck or boom. Slightly lift the portal drive.
- 2.24. Loosen the lower threaded connection of the two shock absorbers, and push the shock absorber upwards to release. See Figure 7.

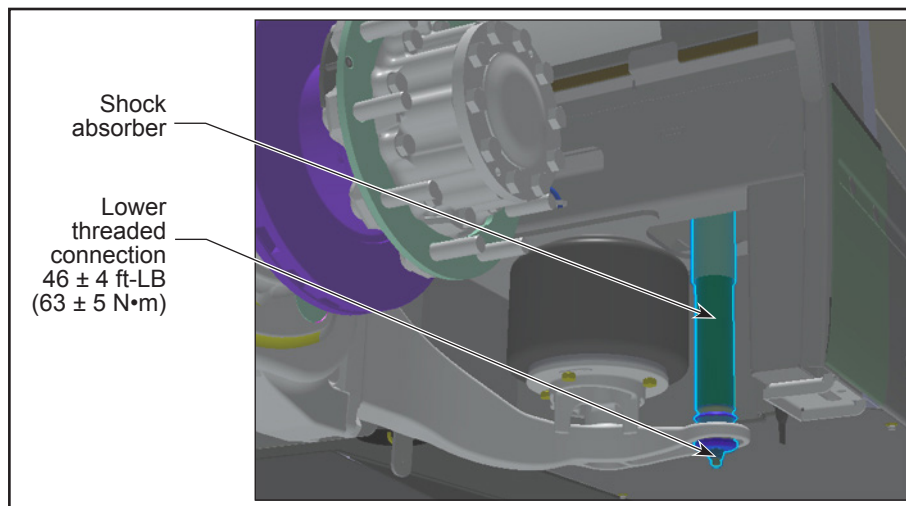


Figure 7 - Shock Absorber

2.25. Remove the two remaining portal drive mounting nuts and separate the entire portal drive carefully from the axle.

**NOTE**

Ensure the axle remains in the horizontal position and that the differential does not drop.

**CAUTION**

Ensure the air spring bellows do not drop.

2.26. Remove the differential from the axle housing with the appropriate tool. See Figure 8.



Figure 8 - Differential Removal

2.27. Pull the long stub shaft out of the axle housing, and remove the O-ring. See Figure 9.

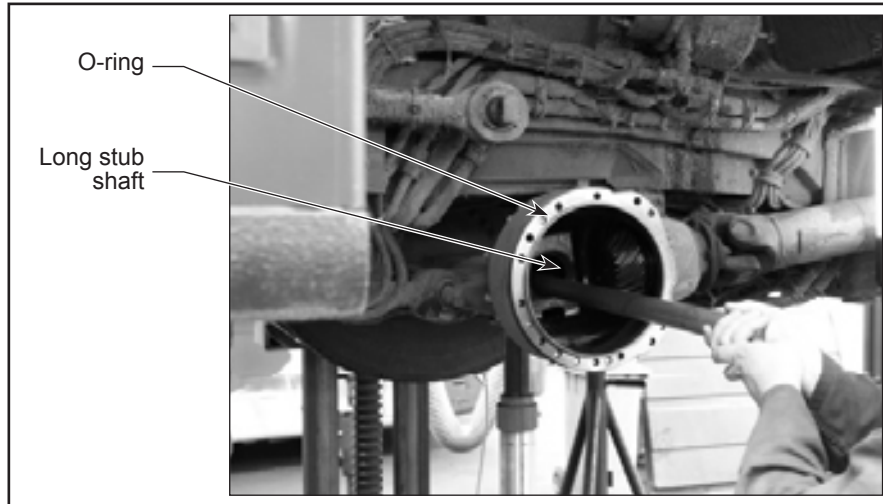


Figure 9 - Axle Housing



NOTE

Enter the exact designation of the long stub shaft in ANNEX B: DOCUMENTATION SHEET.

2.28. Pull the short stub shaft out of the drive gear in the portal drive. See Figure 10.

2.29. Look into the portal drive in order to inspect the intermediate and drive gears for damage. See Figure 10.

Also, on the opposite side of the portal drive, look through the oil drain hole on the bottom of the portal drive in order to have a different view to inspect the intermediate and drive gears.

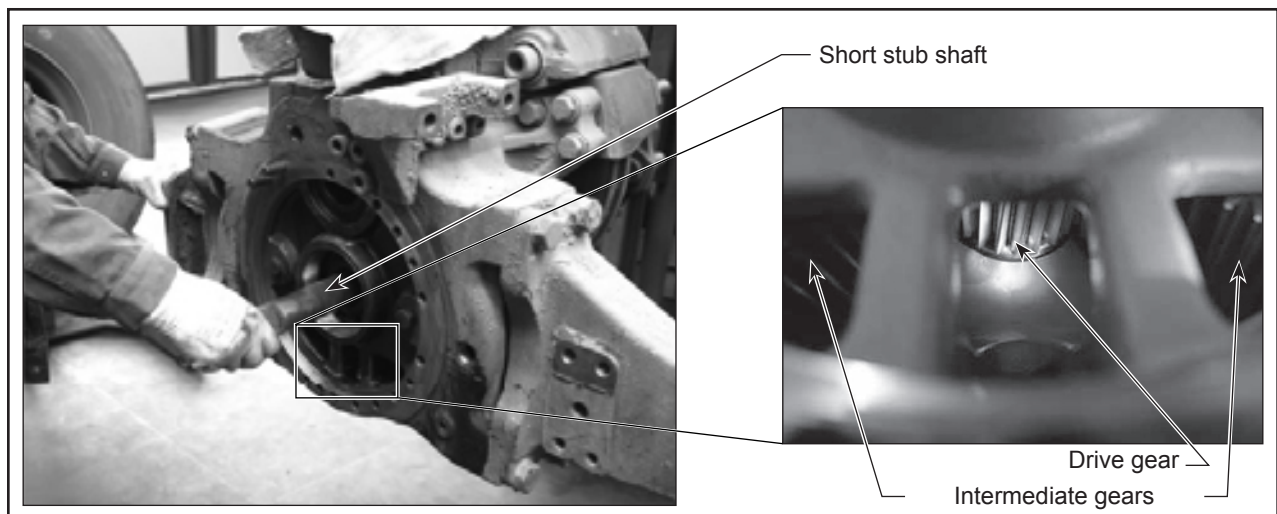


Figure 10 - Portal Drive Gear

- 2.30. Mount and support the differential bearing on the pressure piece.
- 2.31. Loosen the crown wheel connection on the differential bearing. Remove and retain the locking bolts. See Figure 11.

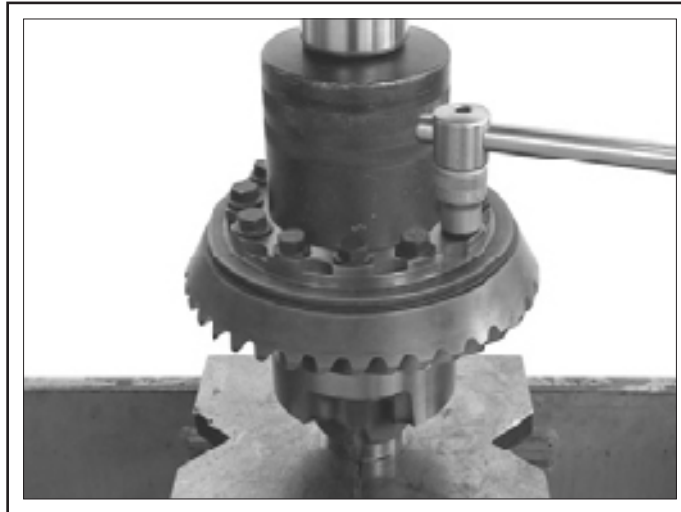


Figure 11 - Differential Bearing Crown Wheel

- 2.32. Press the crown wheel off the differential carrier.
- 2.33. Pull the differential cover out of the differential carrier using a pulling device. See Figure 12.



Figure 12 - Differential Cover Removal

2.34. Remove the axle bevel gear and thrust washer (crown wheel side) from the differential carrier. See Figure 13.



Figure 13 - Bevel Gear and Thrust Washer Removal

2.35. Measure the thickness of the thrust washer with a caliper.



NOTE

Enter the installation position of the axle bevel and thrust washer, along with the washer thickness (in mm) in ANNEX B: DOCUMENTATION SHEET at the end of this document.

2.36. Force the slotted pins out of the cross joint. See Figure 14.

2.37. Force the four differential pins out of the differential carrier. See Figures 14b and 14c. Remove the differential pins, cross joint, axle bevel gear, and thrust washer from the carrier.

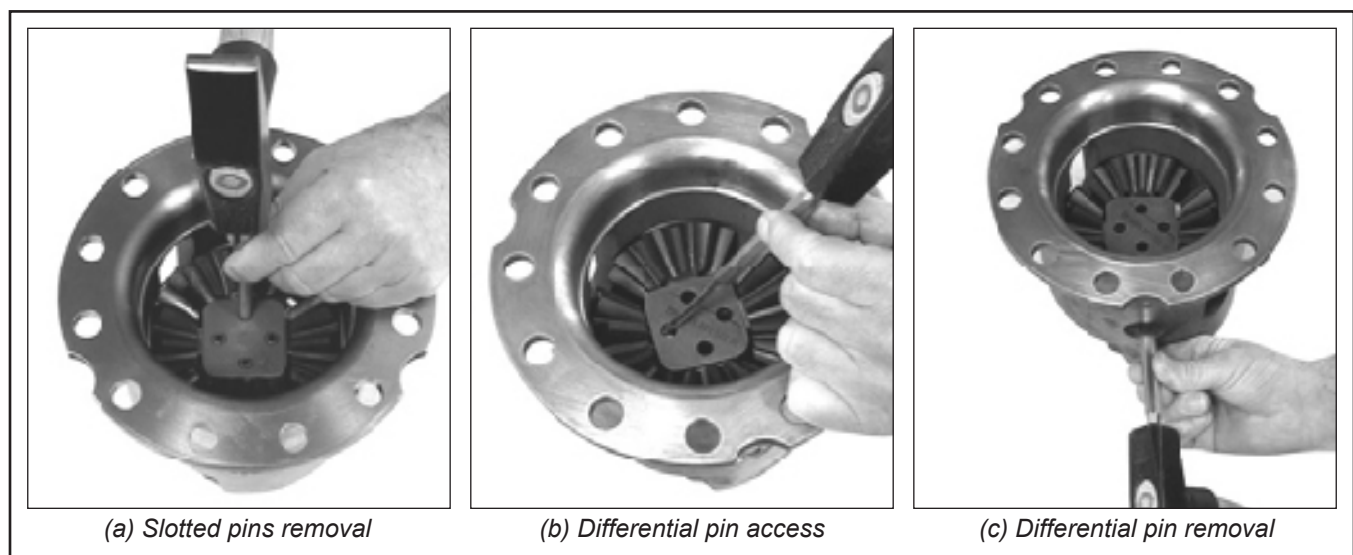


Figure 14 - Differential Carrier Disassembly

2.38. Measure the thickness of the thrust washer on the axle bevel gear (on the axle housing side) with a caliper.

**NOTE**

Enter the installation position of the axle bevel and thrust washer (on the axle housing side), along with the washer thickness (in mm) in ANNEX B: DOCUMENTATION SHEET.

2.39. Clean all mounting faces and components of the rear axle assembly and portal.

**NOTE**

During cleaning, cover components and roller bearings, and plug the housing openings.

2.40. Support the differential carrier on the pressure piece.

2.41. Place a new thrust washer (part # N8893147) and axle bevel gear (part # N8898604) into the differential carrier.
Apply oil on all components according to the ZF List of Lubricants TE-ML. See Figure 15.

**NOTE**

Ensure radial alignment of the thrust washer and all subsequent parts during re-assembly

2.42. Insert the retained cross joint and the four differential pins into the differential carrier. See Figures 15b and 15c.

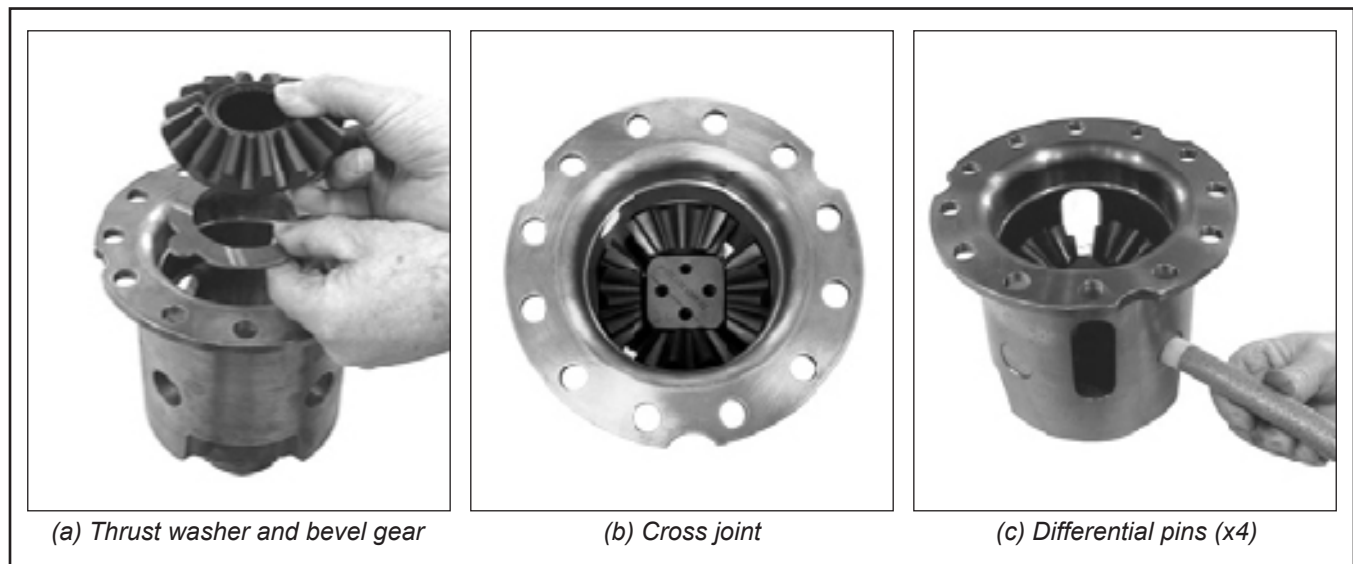


Figure 15 - Differential Carrier Re-assembly

2.43. Force the slotted pins (part # N8893152 and N8893153) into the cross joints and differential pins. Ensure the openings of the slotted pins are offset in a 180° position to each other. See Figure 16.

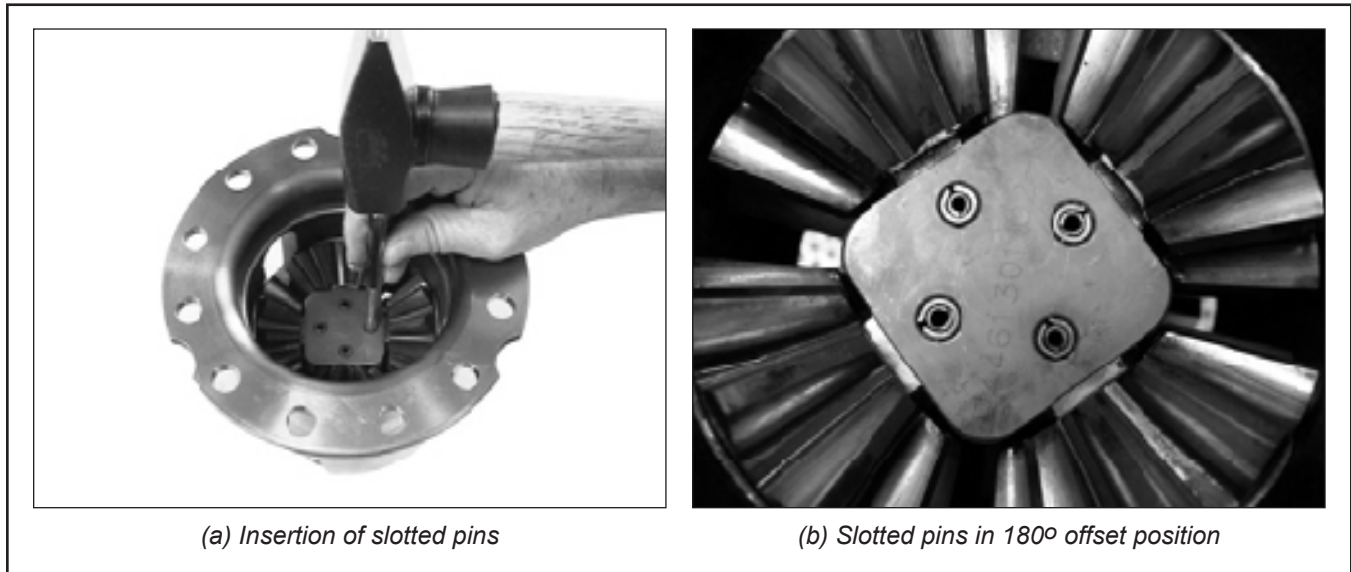


Figure 16 - Slotted Pins

2.44. Insert the second axle bevel gear (part # N8898604) into the differential carrier. See Figure 17.

2.45. Grease the sliding surface of the second thrust washer (part # N8893147) according to the ZF List of Lubricants TE-ML 12. Insert the thrust washer into the differential carrier cover. See Figure 17.



Figure 17 - Thrust Washer Placed in Differential Cover Carrier

2.46. Radially align the differential cover by means of locating pins and then press it into the differential carrier until contact is obtained. See Figure 18.

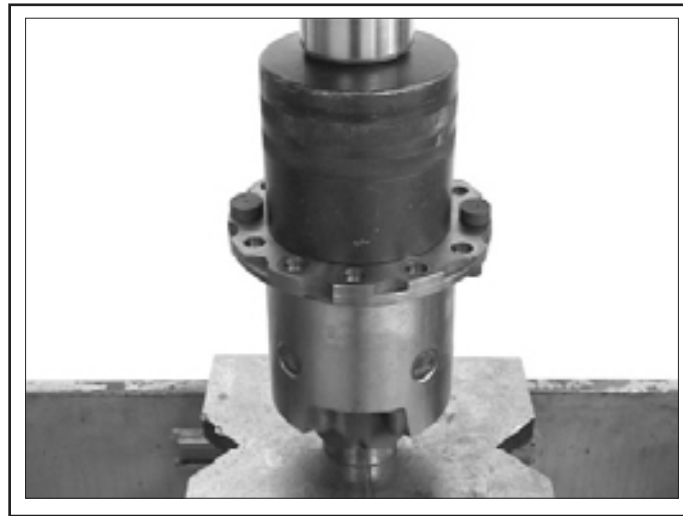


Figure 18 - Differential Cover Alignment

2.47. Mount two locating pins on the crown wheel, insert the differential carrier and bring it into contact position by means of the press. See Figure 19.

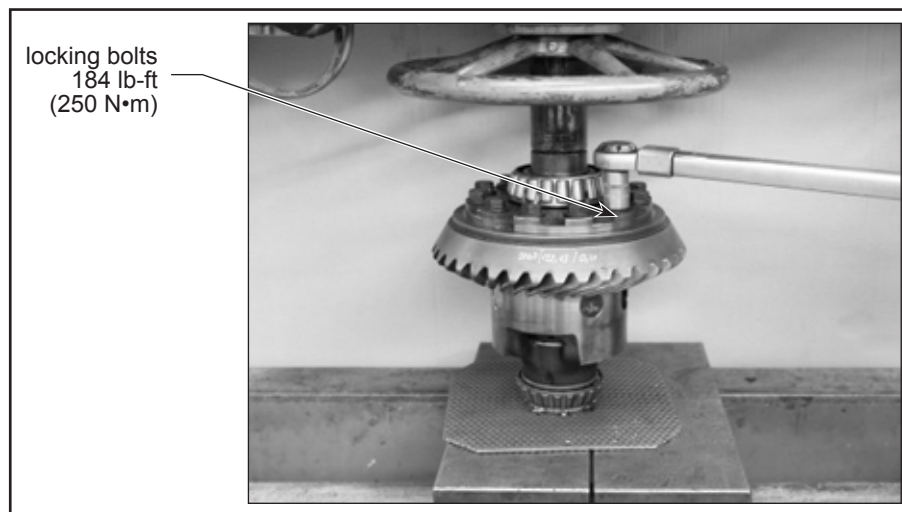


Figure 19 - Mounting of Crown Wheel on Differential Carrier



NOTE

Protect the gears of the crown wheel with a rag or cloth.

2.48. Fix the differential carrier onto the crown wheel by means of a press. Place and tighten the retained locking bolts. Secure the locking bolts with Loctite type-no.2701 (or equivalent). See Figure 19.

2.49. Install the stud bolts of the portal drive and secure with Loctite type no. 262 (or equivalent). See Figure 20.

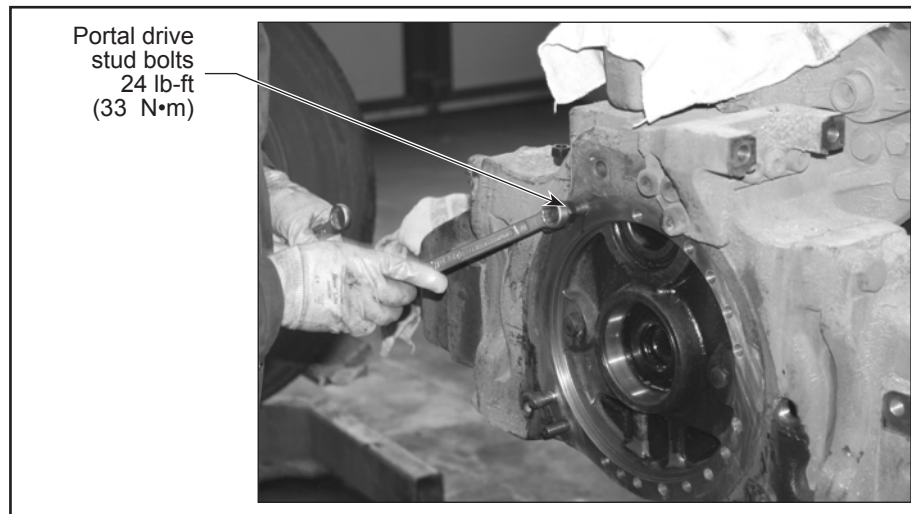


Figure 20 - Portal Drive Stud Bolts

- 2.50. Mount the short stub shaft on the portal drive gear. See Figure 10.
- 2.51. Insert the long stub shaft into the axle housing. See Figure 9.
- 2.52. Mount the differential onto the long stub shaft until contact is reached. See Figure 8.
- 2.53. Install the new O-ring (part # N8884283). Apply sealing compound DREI-BOND SILIKON 1207 (or equivalent) onto the mounting face immediately before assembly of the portal drive.
- 2.54. Using a lifting bracket, carefully attach the complete portal drive onto the axle housing. Simultaneously mount the short stub shaft on the differential.
- 2.55. Secure the portal drive in place with the retained Torx screws and hex nuts. See Figure 21.

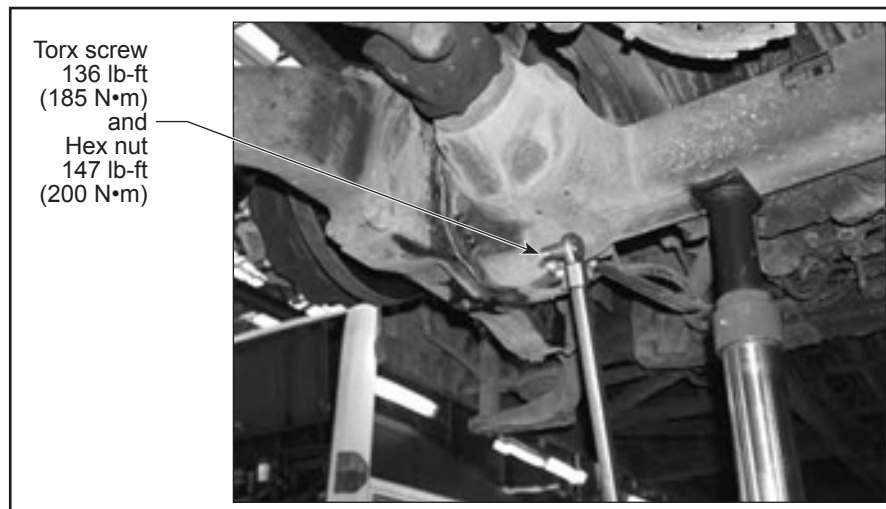


Figure 21 - Portal Drive Mounting

- 2.56. Attach both shock absorbers and rubber joint on the spring carrier, and fix using the appropriate retained hex nuts. See Figure 7. Apply a lubricant such as Never-Seez or equivalent.
- 2.57. Remove the lifting bracket from the portal drive.
- 2.58. Raise the axle until the radius rod can be attached in a horizontal position. See Figure 5.
- 2.59. Fix the radius rod in place with the retained hex screws. See Figure 5. Apply a lubricant such as Never-Seez or equivalent.
- 2.60. Insert and secure the air spring bellows with the retained washers and mounting screws. See Figure 1. Apply a lubricant such as Never-Seez or equivalent.
- 2.61. Mount the brake caliper onto the brake cylinder and secure it with the retained locknuts. Apply a torque of 144 ± 11 lb-ft (195 ± 15 N•m).
- 2.62. Mount the air line carrier plate on the brake cylinder and secure it with the retained hex nut. Refer to section 8: BREAKING SYSTEM of the Nova LFS maintenance manual for detailed installation procedures and torque.
- 2.63. If required, install a new O-ring onto the ABS sensor. Apply a torque of 7 lb-ft (9.5 N•m).
- 2.64. Screw the potentiometer (wear indicator) in place.
- 2.65. Install and secure the stabilizer bar with the retained screws. Refer to section 5: ZF AV-132 REAR AXLE of the Nova LFS maintenance manual for detailed installation procedures and torque.
- 2.66. Position the fixing plate for the compressed air lines and secure it with the retained hex screws.
- 2.67. Clean both sides of the screw plugs on the bottom of the portal drive and mount them with new O-rings. Apply a torque of 96 lb-ft (130 N•m).
- 2.68. Fill the axle until the oil reaches the level check hole on the opposite side of the portal drive (approximately 16 liters). Use oil according to the ZF List of Lubricants TE-ML 12.

**NOTE**

For further information, refer to **Lubrication and Maintenance Instructions AV-132**.

- 2.69. Turn the screw in the brake cylinder in order to close the spring brake actuator. Apply torque according to Figure 1.
- 2.70. Mount the mud flap cover with the retained screws.
- 2.71. Use a suitable wheel lift in order to mount both wheels. Place wheel nuts and tighten crosswise. Apply a torque of 443 lb-ft (600 N•m). See section 6: WHEELS AND TIRES of the Nova LFS maintenance manual.

**CAUTION**

Retighten wheel nuts after 31 miles (50 km) of travel.

2.72. Stamp the letter "A" in the "Version" field of the identification plate in order to indicate the completed axle conversion. See Figure 22.



Figure 22 - Identification Plate

2.73. Place the lifting jack under the wheel and raise slightly. Remove all supports and evenly lower the vehicle.



CAUTION

Prior to the first test drive, check the vehicle on the brake test rig.



NOTE

Following the first test drive, check the axle for leaks. ❖

ANNEX A (page 1 of 3)

The following information is provided by ZF. Nova Bus cannot be held responsible for its content.

Ordner/Files:	7	Service Information	
Type:	AV-132		
Seite/Page:	1 von/of 3		
lfd. Nr/ Current No.:	70/10e		
		Arbeitsmaschinen-Antriebstechnik und Achssysteme Off-Road Driveline Technology and Axle Systems	

Introduction of new oil sampling kits (oil PEK) for AV-132

This Service Info has been designed to inform you about the introduction of new oil sampling kits (ZF order no. AA00 322 625) for AV bus axles. In future this oil PEK shall replace the previous oil sampling device („gun“).

The ZF P/N AA00322 625 is equivalent to Nova Bus P/N N8900046

The oil-PEK includes 1 sample bottles as well as the related hose.
It also contains 1 addressed mailing bag and 1 oil sample form.

In addition, a pump (ZF order no. AA00 315 961) is required for oil sampling (one time). *The ZF P/N AA00 315 961 is equivalent to Nova Bus P/N N8900047*

Important: For each oil sample a new hose must be used to avoid any contaminations of the oil! The pump can be used many times, as it is not in direct contact with the oil.



Oil-PEK
ZF-order no. AA00 322 625



Oil pump in the analysis case
ZF-order no. AA00 315 961

19079101 A2

Datum/Date:	2011-03-01
Abteilung/Dept.:	ASDS / März
Email:	Juergen.maerz@zf.com
Telefon/Phone:	+49 851 494 2855
Fax/Telefax:	+49 851 494 902855

ZF Passau GmbH
- Kundendienst / Service Department -
Donaustr. 25 - 71, 94030 Passau

ANNEX A (page 2 of 3)

Ordner/Files:	7	Service Information	 Arbeitsmaschinen-Antriebstechnik und Achssysteme Off-Road Driveline Technology and Axle Systems
Type:	AV-132		
Seite/Page:	2 von/of 3		
lfd. Nr/ Current No.:	70/10e		

Notes for sampling**Period of sampling**

The oil samples must be taken in operating temperature condition, immediately after standstill of the vehicle (max. 3 minutes).

Sampling point

Oil filler screw portal housing

Sampling

Please be careful that dirt / water does not penetrate into the oil sample!

- Carefully clean the sampling point before taking the sample
- Enter the hose through the oil filler hole into the oil bath

The hose may not come into contact with contaminated parts or floors!

- It is indispensable to **complete** the oil sample form **as specified**.

Attachment:

Sample template for oil sample form (see page 3)

ANNEX A (page 3 of 3)



OelCheck Oil Sample Form

Please enter only axle serial no. into the field Unit ID!

Barcode auf das Probengefäß kleben, jede Probe einen Begleitschein anfügen.
OELCHECK-Problemtabelle und Zettelchen für vorzuckelte Analyse.
Stick barcode label on sample bottle. Stick barcode labels on sample forms for each sample.
The original sample bottle indicates a previous analysis of this sample.

Analysenumfang
Analysis kit
Grund der Analyse Reason for analysis
 Folgeuntersuchung, vorherige Labordiagnostik, Trendanalyse, previous lab-number
 Routinekontrolle Routine control
 Ölartenwechsel Oil type change
 Schaden Damage
 Sonstiger Grund/Problem Other

Name Besitzer/Vereinbetrieb
Name Owner/Transport company
Ort/Stadt City
Land Country
Fahrzeug-Hersteller/OEM Vehicle manufacturer/OEM
Fahrzeug-Typ Vehicle type
Fahrzeugnummer Vehicle identification number
Fahrzeug-Nummer Vehicle number
Fahrzeugzulassung Vehicle initial registration
Getriebeart Gear type
Getriebehersteller Gear manufacturer

e.g. 6HP 602
e.g. ZF, Voith

Very important information!

Achsenbezeichnung (Dieses Feld unbeschriftet ausfüllen)
Unit ID (Please enter same Unit-ID for same axle)
Axle serial no. Achsennummer (max. 20 Zeichen) axle serial number (max. 20)

Achsenart Axle type
Stückliste Spare parts list
Anwendung/Einsatz Application/Use
Ölherkunft/Bezeichnung Lubricant brand name
Viskosität Viscosity
Ölmenge im Getriebe Lubricant quantity
Nichtkürzung Top-up volume
Einfüllmedium Date sample taken
Ölwechseldatum Date oil changed
Ölstandzeit Oil in use
Gesamte Laufzeit Total operating time
Öl gewechselt Oil changed

e.g. AV-132
4472.036. xxx
e.g. City traffic

SAE
 ISO VG
 Liter (l) kg
 mm J/yr
 mm J/yr
 km Stunden
 Monate Jahre
 MWh
 ja nein no

IHR PROBENBELEG
KEEP FOR YOUR REFERENCE

Probe mit der Bezeichnung Unit ID
Axle serial no. wurde versandt an
Labornummer Sample number

TT or MM mm JJ/yr
TT or MM mm JJ/yr



{*bc*} (SPrtx) {SmpIno}

Kundennummer Customer number (MainCustNo) (CustNo)
Firma Company
ZF Passau GmbH

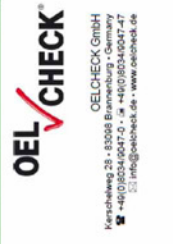
Titel, Name Title, name
Funktion, Abteilung Function, department
AVTP
Strasse, Postfach Street, P.O. box
Donaustr. 25-71
Land, PLZ, Ort Country, ZIP, city
94034 Passau
Telefon, Durchwahl Phone number, Direct
Fax
Internet
E-Mail email

Laborbericht per Lab-report by E-Mail email Post mail
 Express-Analyse (25 €) (25 € extra)
 Sonderbest (R. Preisliste) gewünscht (Special order, see price list)
 Datum, Unterschrift Date, signature

Zusätzliche firmeninterne Angaben (erscheinen auf dem Laborbericht)
Additional company-internal notes (printed in lab-report)
(RELTO)

Die Daten bleiben in der Datenbank des Verkäufers gespeichert
The values are saved in the seller's database. Complaints are disposed after 30 days

already completed!



AVTP

A-Achssysteme NKW ZF Passau

ANNEX B (page 1 of 1)

The following information is provided by ZF. Nova Bus cannot be held responsible for its content.

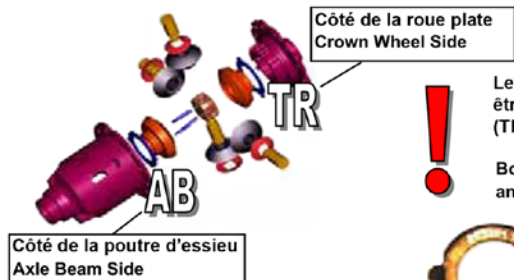
AV-132
Documentation - Campagne du différentiel
Documentation sheet - Differential campaign



Arbeitsmaschinen-Antriebstechnik
und Achssysteme

No. de série Serial-No.	<input type="text"/>	Liste de pièces Parts List	4472 _ _ _ _
Nom client/Compagnie de transport Name Owner/Transport company	<input type="text"/>		
Ville City	<input type="text"/>	Pays Country	<input type="text"/>
Manufacturier du véhicule/OEM Vehicle manufacturer/OEM	<input type="text"/>		
Type de véhicule Vehicle type	<input type="text"/>	Numéro du véhicule Vehicle number	<input type="text"/>
No. d'identification du véhicule Vehicle identification number	<input type="text"/>		
Premier enregistrement First registration	<input type="text"/>	Date de remise en état Date of rebuilding	<input type="text"/>
Millage Mileage	<input type="text"/> km	Type d'huile et marque Oil-brand/type	<input type="text"/>
Manufacturier d'engrenage Gear manufacturer	<input type="text"/>	Type d'engrenage Gear type	<input type="text"/>
Niveau d'huile AV-132 Oil level in AV-132	OK <input type="checkbox"/> pas OK <input type="checkbox"/> not OK <input type="checkbox"/> → <input type="text"/>		

© Alle Rechte bei ZF Passau GmbH, auch für den Fall von Schutzrechtsanmeldungen. Jede Verfügungsbefugnis, wie Kopier- und Weitergaberecht, bei uns. All rights reserved. 02.11.2010



! Les deux planétaires et anneaux de butée doivent être identifiés avec le no. de série AV-132 et sa position (TR = côté roue plate, ou AB = côté poutre d'essieu)!

Both axle bevel gears and shims have to be marked with AV-132 serial no. and position (TR = Crown Wheel- or AB = Axle Beam-Side)!



Épaisseur de l'anneau de butée
Thickness of shims



TR: **X (TR) =** mm

AB: **X (AB) =** mm

Identification du faux arbre
Marking on stub shaft



z.B./e.g: elbe 43/08 ZF 4472 335 665

Id. du faux arbre court:
Stub shaft short:

Id. du faux arbre long:
Stub shaft long:

Les pièces retirées ainsi que ce document complété doivent être envoyés à:
Exchanged parts including filled documentation sheet have to be sent to:

ZF Passau GmbH
Werk 1, Kundendienst, AVTP
Donastr. 25-75
94034 Passau
Germany

Ville / Date
City / Date:

Sceau / Signature du garage
Rubber stamp / Signature of workshop

ANNEX C (page 1 of 1)

The following information is provided by ZF. Nova Bus cannot be held responsible for its content.

Serial number	Parts list (BoM)	Mileage (km)	Service Workshop (Stamp)
Submit the completed sheet of findings with every warranty / goodwill procedure!			
2) Portal right			
Input gear	<input type="checkbox"/> Pitting	<input type="checkbox"/> Tooth fracture	<input type="checkbox"/> broken
Int. gear	<input type="checkbox"/> Pitting	<input type="checkbox"/> Tooth fracture	<input type="checkbox"/> OK
Output gear	<input type="checkbox"/> Pitting	<input type="checkbox"/> Tooth fracture	<input type="checkbox"/> OK
Axial bearing bearing	<input type="checkbox"/> Pitting	<input type="checkbox"/> broken	<input type="checkbox"/> OK
Intern. gear bearing	<input type="checkbox"/> Pitting	<input type="checkbox"/> Rolling passes	<input type="checkbox"/> OK
Output gear bearing	<input type="checkbox"/> Pitting	<input type="checkbox"/> Rolling passes	<input type="checkbox"/> OK
Plug-in shaft	<input type="checkbox"/> broken	Prod. date	Manufacturer
Portal housing	<input type="checkbox"/> Run-in wear	<input type="checkbox"/> Run-in wear	<input type="checkbox"/> O-ring leakage
	<input type="checkbox"/> Intermediate gear bearing	<input type="checkbox"/> Thrust bearing	<input type="checkbox"/> PG - AB
Intern. bearing pi	<input type="checkbox"/> Run-in wear	<input type="checkbox"/> leaking	<input type="checkbox"/> OK
4) Differential			
Axle bevel gear (A)	<input type="checkbox"/> OK	<input type="checkbox"/> Wear	<input type="checkbox"/> Pitting
Thrust washers (A)	<input type="checkbox"/> OK	Tv dimension, TR	mm
Differential gears	<input type="checkbox"/> OK	<input type="checkbox"/> Wear	<input type="checkbox"/> Pitting
Thrust washers	<input type="checkbox"/> OK	<input type="checkbox"/> Fretting / Scoring	<input type="checkbox"/> broken
Diff. bolt	<input type="checkbox"/> OK	<input type="checkbox"/> Fretting / Scoring	<input type="checkbox"/> broken
Straight pins	<input type="checkbox"/> OK	<input type="checkbox"/> Cracks	<input type="checkbox"/> loose
Crown gear cone	<input type="checkbox"/> OK	<input type="checkbox"/> Rolling passes	<input type="checkbox"/> Pitting
Diff. bearing, port;	<input type="checkbox"/> OK	<input type="checkbox"/> Rolling passes	<input type="checkbox"/> Pitting
Diff. bearing, outp	<input type="checkbox"/> OK	<input type="checkbox"/> Rolling passes	<input type="checkbox"/> Pitting
1) Portal left			
Input gear	<input type="checkbox"/> Pitting	<input type="checkbox"/> Tooth fracture	<input type="checkbox"/> broken
Int. gear	<input type="checkbox"/> Pitting	<input type="checkbox"/> Tooth fracture	<input type="checkbox"/> OK
Output gear	<input type="checkbox"/> Pitting	<input type="checkbox"/> Tooth fracture	<input type="checkbox"/> OK
Axial bearing bearing	<input type="checkbox"/> Pitting	<input type="checkbox"/> broken	<input type="checkbox"/> OK
Intern. gear bearing	<input type="checkbox"/> Pitting	<input type="checkbox"/> Rolling passes	<input type="checkbox"/> OK
Output gear bearing	<input type="checkbox"/> Pitting	<input type="checkbox"/> Rolling passes	<input type="checkbox"/> OK
Plug-in shaft	<input type="checkbox"/> broken	Prod. date	Manufacturer
Portal housing	<input type="checkbox"/> Run-in wear	<input type="checkbox"/> Run-in wear	<input type="checkbox"/> O-ring leakage
	<input type="checkbox"/> Intermediate gear bearing	<input type="checkbox"/> Thrust bearing	<input type="checkbox"/> PG - AB
Intern. bearing p	<input type="checkbox"/> Run-in wear	<input type="checkbox"/> leaking	<input type="checkbox"/> OK
3) Drive			
KRS	<input type="checkbox"/> OK	<input type="checkbox"/> Tooth fracture, TR	<input type="checkbox"/> Tooth fracture, pinion
Input flange ring, input	<input type="checkbox"/> OK	<input type="checkbox"/> Run-in wear	<input type="checkbox"/> Pitting
Grooved nut	<input type="checkbox"/> OK	<input type="checkbox"/> Securing lacquer cracked	<input type="checkbox"/> loose
Pinion head bear	<input type="checkbox"/> OK	<input type="checkbox"/> Pitting	<input type="checkbox"/> Rolling passes
Pinion flange be.	<input type="checkbox"/> OK	<input type="checkbox"/> Pitting	<input type="checkbox"/> Rolling passes
Other information			
Primary defective p	Designation	Part number	
Water in oil (visual judgement)	<input type="checkbox"/> yes	<input type="checkbox"/> no	
Comments:			



Rev. 3.02.2010

7/11