



Countries: CANADA, UNITED STATES Document ID: IK1201441
 Availability: ISIS, FleetISIS, IsSIR Revision: 1
 Major System: ENGINES Created: 8/29/2019
 Current Language: English Last Modified: 10/18/2019
 Other Languages: NONE Author: Greg Scheff
 Viewed: 1942

[Less Info](#)

Hide Details

Coding Information

Copy Link 	Copy Relative Link 	Bookmark View My Bookmarks	Add to Favorites 	Print 	Provide Feedback 	Helpful 12	Not Helpful 1
---------------	------------------------	---	----------------------	-----------	----------------------	-------------------	----------------------

Title: Identifying the Source of Oil Seen at the Lower Flywheel Housing Area

Applies To: All low mileage A26 and Cummins engines equipped with an Allison Transmission

CHANGE LOG

Please refer to the change log text box below for recent changes to this article:

10/18/2019 - Added information for Cummins engines 09/03/2019 - Initial Article Release	^ v
--	--------

DESCRIPTION

This document will aid the user in locating the source of oil seen at the lower flywheel housing area. Reports of suspect rear crankshaft seal leaks from the field have been received on new trucks with very low mileage equipped with Allison Transmissions. This article is largely directed to engines that have very low mileage and may still have the original factory oil in them. In some instances, lubricants are used in new transmission mating components that when warmed up, will run off and can give the appearance of a leaking rear crankshaft seal. This document will serve as an aid in determining if a rear crank seal is actually at fault.

SYMPTOM(s)

Customer Observations or Concerns:

The customer or dealer may observe a light coating of oil at the lower flywheel housing and or small drops of fluid on the ground under the flywheel housing (**Figure #1 through #5**).





Figure #1: A26 Light Oil Film Present at Lower Flywheel Housing



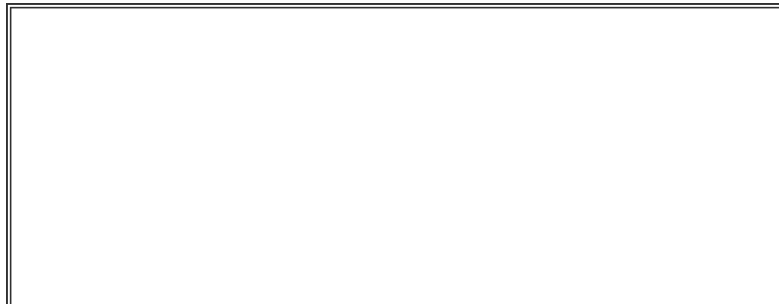
Figure #2: A26 Light Oil Present at Inspection Cover



Figure #3: A26 Light Oil Seen with Inspection Cover Removed



Figure #4: A26 Light Oil Collected under Inspection Cover



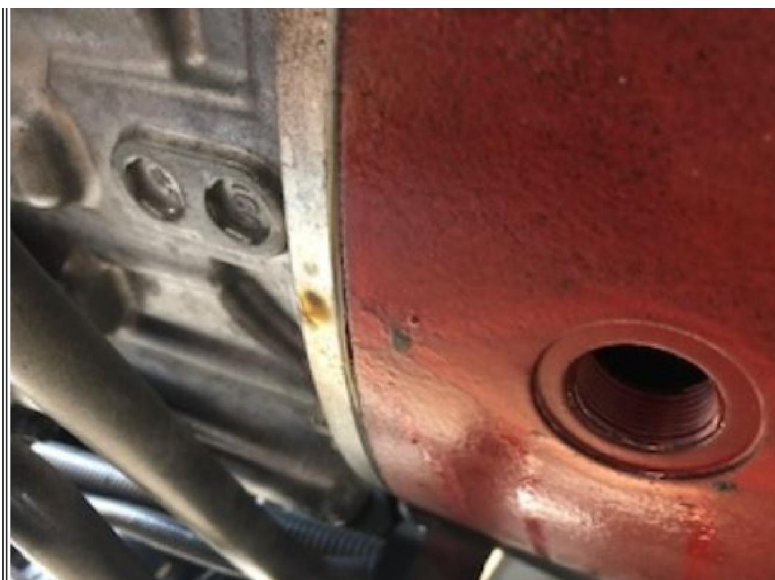


Figure #5: Low Mileage Cummins L9

SPECIAL TOOL(s)

Tool Description	Tool Number	Comments
KIT, UV LEAK DETECTION KIT	ZTSE4618	Complete Leak Detection Kit

REPAIR STEP(s) FOR A26 ENGINES

NOTE:

The original factory fill oil shipped with all Navistar Big Bore Engines has green dye added to it for leak detection purposes used at the assembly plant.

- For A26 engines new enough to have the original factory fill oil in them, perform the following steps while using the UV light from the ZTSE4618 Leak Detection Kit
 - Shine the light up through the lower flywheel housing inspection opening, and on the oil seen externally on the housing
 - If any fluorescent green color is seen in the oil anywhere (**Example Figure #6**), proceed with necessary engine repairs per the [Engine Service Manual](#) to correct the leak
- If no fluorescent green is seen anywhere, then the visible oil seen is not from the engine and no engine repair is needed.





Green dye detected in original oil
when using the UV light

Figure #6: Example of dye's reaction to the UV light

SUGGESTED DIRECTION FOR CUMMINS ENGINES OR WHEN NO GREEN DYE IS DETECTED ON A26 ENGINES

Cummins engines may not have dye in the factory filled oil so the UV light test method above does not apply

3. For new or very low mileage Cummins engines with this complaint, and no dye was detected on the previous steps for A26 then it is recommended to do the following.
 - Verify the leak is not transmission fluid
 - Clean the oil from the housing and all area's as best as possible
 - Return the truck to service and instruct the owner / operator to monitor the area for approximately 10,000 miles
 - Return to the dealer for service if the leak returns

WARRANTY INFORMATION

Warranty Claim Coding:

Refer to the [Warranty Coding Manual](#) for Group and Noun Codes.

Standard Repair Time(s):

Refer to the [SRT Manual](#) for Repair Times

OTHER RESOURCES

[Master Service Information Site](#)

Hide Details

Feedback Information

Viewed: 1941

Helpful: 12

Not Helpful: 1

No Feedback Found



Copyright © 2019 Navistar, Inc.