

(C18) Head To Block Joint External Oil leaks (2245122, 3590908)

(Status Updated: 04Dec2019)

CPI Number: 459966
 Status: Open , Active
 6 Sigma Phase: Analyze
 Commercial Impact: Low
 Initial Project Activation Date: 05Dec2019
 Target Completion Date: 09Nov2020

Models: [\(More...\)](#)

(120K),	(140K),	(24M),	(3406E),	(3456),	(345D L),	(349E L),	(365C L),
(374),	(374D L),	(374D OEM),	(374F),	(374F L),	(374F OEM),	(375 L),	(385C),
(385C FS),	(385C L),	(385C L MH),	(385C LVG UHD OEM),	(385C MH OEM),	(385C OEM),	(390),	(390D),
(390D L),	(390D L OEM),	(390F),	(390F L),	(390F MH OEM),	(390F OEM),	(583T),	(587R),
(587T),	(6015),	(6015 FS),	(6018),	(621G),	(621G OEM),	(623B),	(623E),

Symptom/Description:

External oil leaks from the head to block joint

Part Number:

224-5122 (GASKET-CYL HEAD) 359-0908 (GASKET-CYL HEAD) 560-2843 (GASKET-CYL HEAD)

Dealer Status:

Inspect the block to determine reusability and salvage per SEBF9008. Pay close attention to the details on surface finish on top deck of block, machine head deck if needed. Make sure to follow the Liner Projection Measuring Procedure and set liner projection towards the higher end of spec for best results. Inspect coolant passages for erosion and utilize inserts if needed to repair. Inspect & salvage lower liner bore if needed. Inspect the cylinder head to determine reusability and salvage per SEBF8162. Re-install the cylinder head using new and improved head gasket with funnel seals PN: 571-9902 Re-install the cylinder head using water ferrules PN: 359-1439 Install and torque the cylinder head as per SIS Web specifications. Please see: UENR0132

Interim Action Info:

Repair Type: Field
Repair Action: Inspect the block to determine reusability and salvage per SEBF9008. Pay close attention to the details on surface finish on top deck of block, machine head deck if needed. Make sure to follow the Liner Projection Measuring Procedure and set liner projection towards the higher end of spec for best results. Inspect coolant passages for erosion and utilize inserts if needed to repair. Inspect & salvage lower liner bore if needed. Inspect the cylinder head to determine reusability and salvage per SEBF8162. Re-install the cylinder head using new and improved head gasket with funnel seals PN: 571-9902 Re-install the cylinder head using water ferrules PN: 359-1439 Install and torque the cylinder head as per SIS Web specifications. Please see: UENR0132
Repair Eff S/N: 103[00001-99999],115[00001-99999],137[00001-99999],14Y[00001-99999],188[00001-99999],1FB[00001-99999],1JB[00001-99999],1JM[00001-99999],232[00001-99999],233[00001-99999],234[00001-

99999],24W[00001-99999],27W[00001-99999],2KR[00001-99999],2L3[00001-99999],2L4[00001-99999],2L9[00001-99999],2T2[00001-99999],2T6[00001-99999],2T9[00001-99999],3F6[00001-99999],3F7[00001-99999],3F8[00001-99999],3KR[00001-99999],3SK[00001-99999],3T6[00001-99999],3T7[00001-99999],3T8[00001-99999],46P[00001-99999],4AS[00001-99999],4FB[00001-99999],50W[00001-99999],53Y[00001-99999],5YR[00001-99999],6EB[00001-99999],6XJ[00001-99999],6YF[00001-99999],7KR[00001-99999],7TL[00001-99999],7XM[00001-99999],85X[00001-99999],86Z[00001-99999],89Z[00001-99999],8PS[00001-99999],8RF[00001-99999],8TK[00001-99999],90Z[00001-99999],91Z[00001-99999],92Z[00001-99999],986[00001-99999],9EM[00001-99999],9TC[00001-99999],9YP[00001-99999],A7A[00001-99999],A8J[00001-99999],ABK[00001-99999],AMA[00001-99999],AN2[00001-99999],AP4[00001-99999],AR2[00001-99999],AR3[00001-99999],ASW[00001-99999],ASX[00001-99999],AT2[00001-99999],AW4[00001-99999],AWF[00001-99999],AZW[00001-99999],B1N[00001-99999],B1P[00001-99999],B1R[00001-99999],B37[00001-99999],B93[00001-99999],B9K[00001-99999],BDN[00001-99999],BE2[00001-99999],BG4[00001-99999],BJ6[00001-99999],BNH[00001-99999],BS9[00001-99999],BTX[00001-99999],BWR[00001-99999],BXD[00001-99999],BXL[00001-99999],BXY[00001-99999],BYP[00001-99999],BZZ[00001-99999],C2A[00001-99999],C2F[00001-99999],C2M[00001-99999],C5E[00001-99999],C5H[00001-99999],C5L[00001-99999],CB2[00001-99999],CE5[00001-99999],CMX[00001-99999],CXM[00001-99999],CYY[00001-99999],DBB[00001-99999],DBC[00001-99999],DBD[00001-99999],DDS[00001-99999],DFA[00001-99999],DFJ[00001-99999],DHB[00001-99999],DHF[00001-99999],DHT[00001-99999],DKE[00001-99999],DLW[00001-99999],DNM[00001-99999],DNW[00001-99999],DP4[00001-99999],DPE[00001-99999],DSE[00001-99999],DTP[00001-99999],DWJ[00001-99999],DXB[00001-99999],DXE[00001-99999],DXG[00001-99999],DXR[00001-99999],DZE[00001-99999],E1Y[00001-99999],E8X[00001-99999],EAM[00001-99999],EBF[00001-99999],ECM[00001-99999],ECX[00001-99999],EDA[00001-99999],EEH[00001-99999],EGP[00001-99999],EJG[00001-99999],EJS[00001-99999],EKW[00001-99999],ELC[00001-99999],ELL[00001-99999],ELM[00001-99999],ENG[00001-99999],ESE[00001-99999],EWX[00001-99999],EXB[00001-99999],F8N[00001-99999],FAT[00001-99999],FCT[00001-99999],FEH[00001-99999],FFH[00001-99999],FG4[00001-99999],FG5[00001-99999],FG8[00001-99999],FMC[00001-99999],FST[00001-99999],FTE[00001-99999],FTH[00001-99999],FTJ[00001-99999],FXR[00001-99999],G1D[00001-99999],G4C[00001-99999],GA4[00001-99999],GAY[00001-99999],GB3[00001-99999],GB4[00001-99999],GBM[00001-99999],GEN[00001-99999],GES[00001-99999],GEX[00001-99999],GG5[00001-99999],GJE[00001-99999],GMP[00001-99999],GMR[00001-99999],GPT[00001-99999],GRS[00001-99999],GTB[00001-99999],GXM[00001-99999],GXR[00001-99999],H25[00001-99999],H5G[00001-99999],H8G[00001-99999],HAZ[00001-99999],HJD[00001-99999],HNG[00001-99999],HSM[00001-99999],HTX[00001-99999],J8B[00001-99999],JAS[00001-99999],JB9[00001-99999],JCF[00001-99999],JCM[00001-99999],JDA[00001-99999],JDK[00001-99999],JDY[00001-99999],JE8[00001-99999],JEP[00001-99999],JFC[00001-99999],JGP[00001-99999],JH9[00001-99999],JHL[00001-99999],JHX[00001-99999],JJ5[00001-99999],JJF[00001-99999],JKG[00001-99999],JKS[00001-99999],JKX[00001-99999],JLE[00001-99999],JLK[00001-99999],JMS[00001-99999],JNZ[00001-99999],JR8[00001-99999],JRE[00001-99999],JWH[00001-99999],KCZ[00001-99999],KD2[00001-99999],KDH[00001-99999],KE3[00001-99999],KEM[00001-99999],KEX[00001-99999],KFX[00001-99999],KGB[00001-99999],KJW[00001-99999],KKJ[00001-99999],KKK[00001-99999],KPZ[00001-99999],KRA[00001-99999],KZL[00001-99999],L4D[00001-99999],L4E[00001-99999],L4F[00001-99999],L4L[00001-99999],L4X[00001-99999],L4Y[00001-99999],L6Z[00001-99999],L8B[00001-99999],L8D[00001-99999],L8S[00001-99999],L8X[00001-99999],LDN[00001-99999],LFJ[00001-99999],LFK[00001-99999],LFN[00001-99999],LH9[00001-99999],LHX[00001-99999],LNA[00001-99999],LNB[00001-99999],LR5[00001-99999],LR7[00001-99999],LTK[00001-99999],LTS[00001-99999],LTX[00001-99999],LWR[00001-99999],LWX[00001-99999],LWY[00001-99999],LWZ[00001-99999],LXJ[00001-99999],LXK[00001-99999],LZA[00001-99999],LZB[00001-99999],M1M[00001-99999],M1Y[00001-99999],M1Z[00001-99999],M3W[00001-99999],M4E[00001-99999],M5F[00001-99999],M8F[00001-99999],MB8[00001-99999],MB9[00001-99999],MCS[00001-99999],MCW[00001-99999],MCY[00001-99999],ME5[00001-99999],MFL[00001-99999],MG2[00001-99999],MGF[00001-99999],MGS[00001-99999],MH8[00001-99999],MHG[00001-99999],MJC[00001-99999],MLN[00001-99999],MMA[00001-99999],MSF[00001-99999],N1C[00001-99999],N1D[00001-99999],N5F[00001-99999],N8F[00001-99999],NAP[00001-99999],NAW[00001-99999],NB2[00001-99999],NBB[00001-99999],NEL[00001-99999],NFJ[00001-99999],NJH[00001-99999],NKL[00001-99999],NL8[00001-99999],NLK[00001-99999],NSR[00001-99999],NXS[00001-99999],P1L[00001-99999],P3Z[00001-99999],PA9[00001-99999],PAP[00001-99999],PAS[00001-99999],PAX[00001-99999],PBN[00001-99999],PCF[00001-99999],PCZ[00001-99999],PDC[00001-99999],PDL[00001-99999],PDM[00001-99999],PEC[00001-99999],PEE[00001-99999],PEJ[00001-99999],PET[00001-99999],PF8[00001-99999],PGN[00001-99999],PHW[00001-99999],PJA[00001-99999],PRL[00001-99999],PS6[00001-99999],PT7[00001-99999],PWY[00001-99999],R4L[00001-99999],RCM[00001-99999],RCY[00001-99999],RDP[00001-99999],REX[00001-99999],RGX[00001-99999],RHX[00001-99999],RJM[00001-99999],RJS[00001-99999],RLB[00001-99999],RMA[00001-99999],RME[00001-99999],RT2[00001-99999],RT8[00001-99999],RWB[00001-99999],RWS[00001-99999],RXF[00001-99999],RXN[00001-99999],S1P[00001-99999],SAY[00001-99999],SBE[00001-99999],SEE[00001-99999],SET[00001-99999],SL8[00001-99999],SNW[00001-99999],SRM[00001-99999],SSM[00001-99999],SSW[00001-99999],STG[00001-99999],STH[00001-99999],STM[00001-99999],SWE[00001-99999],SWH[00001-99999],SZL[00001-99999],SZN[00001-99999],T2P[00001-99999],T2R[00001-99999],T33[00001-99999],T34[00001-99999],T35[00001-99999],T4A[00001-99999],T4P[00001-99999],T4R[00001-99999],T4S[00001-99999],T4X[00001-99999],T6X[00001-99999],T8E[00001-99999],TAS[00001-99999],TEC[00001-99999],TFJ[00001-99999],TFK[00001-99999],TFN[00001-99999],TLZ[00001-99999],TNA[00001-99999],TRB[00001-99999],TW4[00001-99999],TWG[00001-99999],TWX[00001-99999],TWY[00001-99999],TWZ[00001-99999],TXG[00001-99999],TXH[00001-99999],TXL[00001-99999],TXW[00001-99999],TXY[00001-99999],TYE[00001-99999],W1B[00001-99999],W1C[00001-99999],WAG[00001-99999],WAP[00001-99999],WAW[00001-99999],WBT[00001-99999],WJB[00001-99999],WJH[00001-99999],WJW[00001-99999],WJY[00001-99999],WKB[00001-99999],WRH[00001-99999],WSJ[00001-99999],WT4[00001-99999],WT6[00001-99999],WTR[00001-99999],WTS[00001-99999],WTT[00001-99999],WTW[00001-99999],WTX[00001-99999],WTY[00001-99999],X4R[00001-99999],X5F[00001-99999],X5M[00001-99999],X6W[00001-99999],X7W[00001-99999],XP8[00001-99999],XWL[00001-99999],YHT[00001-99999],ZAY[00001-99999],ZLK[00001-99999],ZPS[00001-99999]

Pub Type: No Data Available.

Pub Number: No Data Available.

Pub Date: No Data Available.

Root Cause:

No Data Available

Caterpillar Confidential: Yellow

[CPI IT Help Desk](#)

[Data Privacy](#)

Last Updated: Thu Jan 02 2020 18:43:46 GMT-0600 (Central Standard Time)

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