

C15/C18, JW Pump Robustness Improvement: Recirculation (3362213,3578359,3660168)

(Status Updated: 05Apr2021)

CPI Number: 470375
Status: Open , Active
6 Sigma Phase: Control
Commercial Impact: Low
Initial Project Activation Date: 14May2020
Target Completion Date: 09Jul2021

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

(24M),	(365C L),	(374),	(374D L),	(374F),	(374F L),	(374F OEM),	(385C L),
(385C L MH),	(390),	(390D L),	(390F),	(390F L),	(390F L OEM),	(390F MH OEM),	(390F OEM),
(6015),	(6015 FS),	(6018),	(6060),	(6060 FS),	(621G),	(623F),	(623G),
(627G),	(631G),	(631K),	(631K OEM),	(637G),	(637K),	(657G),	(657G OEM),
(657K),	(735),	(735B),	(735C),	(740),	(740 EJ),	(740B),	(740C EJ),

Symptom/Description:

C15/C18 engine applications are seeing some water pumps fail due to excessive coolant leaks from the weep hole in both machine and industrial engine applications. While occasional leaks from the weep hole are not uncommon and completely normal, excessive leaking has been found on some water pumps that failed.

Part Number:

10R-8660 (PUMP GP-WATER)	153-1256 (SEAL-LIP TYPE)	20R-0952 (PUMP GP-WATER)
20R-2773 (PUMP GP-WATER -B)	280-8039 (PUMP GP-WATER)	336-2212 (SEAL AS-WTR PUMP)
336-2213 (PUMP GP-WATER -B)	343-8955 (PUMP GP-WATER)	357-8359 (PUMP GP-WATER -B)
366-0168 (PUMP GP-WATER -B)	366-0227 (PUMP GP-WATER)	383-0742 (PUMP GP-WATER)
481-1803 (PUMP GP-WATER)		

Dealer Status:

For any signs of leaks from the weep hole, follow guidelines established in the cooling system - inspect test and adjust procedure. An intermittent drip for 3 days, wetness, or discoloration (dried coolant) around the weep hole is normal and acceptable. Only replace pumps that weep a constant stream and/or have regular intermittent drips for periods greater than 3 days. If necessary, replace with same part. Several improved water pumps to address suspect root cause being placed in targeted machines in field for validation hours.

Interim Action Info:

Repair Type: Field

Repair Action: Caterpillar is aware of this problem, but an Interim Repair has not been defined. Please replace with same part.

Repair Eff S/N: 137[00001-00001],232[00001-00001],233[00001-00001],234[00001-00001],237[00001-00001],2KR[00001-00001],2L3[00001-00001],2L4[00001-00001],2L9[00001-00001],2T2[00001-00001],2T6[00001-00001],2T9[00001-00001],3F6[00001-00001],3F7[00001-00001],3F8[00001-00001],3T8[00001-00001],4C2[00001-00001],5EW[00001-00001],626[00001-00001],7XM[00001-00001],85X[00001-00001],87X[00001-00001],8RF[00001-00001],986[00001-00001],A7A[00001-00001],AB9[00001-00001],AN2[00001-00001],ANW[00001-00001],AR2[00001-

00001],AR3[00001-00001],ASX[00001-00001],AW4[00001-00001],AWF[00001-00001],AYH[00001-00001],B1N[00001-00001],B37[00001-00001],B93[00001-00001],B9K[00001-00001],BDN[00001-00001],BG4[00001-00001],BNH[00001-00001],BP2[00001-00001],BRL[00001-00001],BS9[00001-00001],BTX[00001-00001],BXD[00001-00001],BXY[00001-00001],C2F[00001-00001],C2M[00001-00001],C5H[00001-00001],C5L[00001-00001],CB2[00001-00001],CE5[00001-00001],CWJ[00001-00001],CXM[00001-00001],D9A[00001-00001],DBC[00001-00001],DBD[00001-00001],DBX[00001-00001],DBZ[00001-00001],DEM[00001-00001],DEX[00001-00001],DFA[00001-00001],DFJ[00001-00001],DH3[00001-00001],DHB[00001-00001],DHF[00001-00001],DHN[00001-00001],DHT[00001-00001],DLW[00001-00001],DMC[00001-00001],DNM[00001-00001],DNW[00001-00001],DP4[00001-00001],DPE[00001-00001],DT8[00001-00001],DTP[00001-00001],DWJ[00001-00001],DXG[00001-00001],DXR[00001-00001],DYP[00001-00001],E5K[00001-00001],EBF[00001-00001],ECM[00001-00001],ECX[00001-00001],EED[00001-00001],ELC[00001-00001],EXB[00001-00001],FCT[00001-00001],FEH[00001-00001],FH9[00001-00001],FMC[00001-00001],GAY[00001-00001],GB3[00001-00001],GEX[00001-00001],GG5[00001-00001],GJE[00001-00001],GMR[00001-00001],GTB[00001-00001],GXM[00001-00001],GXR[00001-00001],H25[00001-00001],H27[00001-00001],HAZ[00001-00001],HJD[00001-00001],HN8[00001-00001],HNG[00001-00001],J3D[00001-00001],J4W[00001-00001],J8B[00001-00001],JC2[00001-00001],JCF[00001-00001],JDA[00001-00001],JDK[00001-00001],JEP[00001-00001],JGP[00001-00001],JHL[00001-00001],JJ5[00001-00001],JKG[00001-00001],JKS[00001-00001],JLE[00001-00001],JLK[00001-00001],JMS[00001-00001],JR8[00001-00001],JRE[00001-00001],JZB[00001-00001],KD2[00001-00001],KDH[00001-00001],KE3[00001-00001],KEX[00001-00001],KGB[00001-00001],KHH[00001-00001],KPZ[00001-00001],KRA[00001-00001],KZL[00001-00001],L4D[00001-00001],L4E[00001-00001],L5N[00001-00001],L8B[00001-00001],L8D[00001-00001],L8S[00001-00001],LAJ[00001-00001],LDN[00001-00001],LFK[00001-00001],LFN[00001-00001],LH9[00001-00001],LKX[00001-00001],LM3[00001-00001],LNA[00001-00001],LNB[00001-00001],LTS[00001-00001],LTX[00001-00001],LX9[00001-00001],LXJ[00001-00001],LXK[00001-00001],LZA[00001-00001],LZB[00001-00001],MB8[00001-00001],MB9[00001-00001],MCW[00001-00001],MCY[00001-00001],ME5[00001-00001],MEM[00001-00001],MEP[00001-00001],MFL[00001-00001],MGF[00001-00001],MH8[00001-00001],MHG[00001-00001],MLN[00001-00001],MMB[00001-00001],MSY[00001-00001],MZA[00001-00001],N1D[00001-00001],N5F[00001-00001],N64[00001-00001],N8F[00001-00001],NAP[00001-00001],NAW[00001-00001],NBB[00001-00001],NFJ[00001-00001],NL8[00001-00001],NLK[00001-00001],NSR[00001-00001],P1C[00001-00001],P4J[00001-00001],P4L[00001-00001],P5H[00001-00001],P73[00001-00001],PA9[00001-00001],PAS[00001-00001],PAX[00001-00001],PCF[00001-00001],PCZ[00001-00001],PDL[00001-00001],PDM[00001-00001],PEJ[00001-00001],PET[00001-00001],PF8[00001-00001],PGN[00001-00001],PHW[00001-00001],PWY[00001-00001],PYE[00001-00001],R1D[00001-00001],RCM[00001-00001],RCY[00001-00001],REX[00001-00001],RG5[00001-00001],RGM[00001-00001],RJS[00001-00001],RJZ[00001-00001],RKP[00001-00001],RLB[00001-00001],RMA[00001-00001],RME[00001-00001],RMZ[00001-00001],RNA[00001-00001],RT4[00001-00001],RT8[00001-00001],RTJ[00001-00001],RWB[00001-00001],S35[00001-00001],S36[00001-00001],S37[00001-00001],S3A[00001-00001],S65[00001-00001],SEE[00001-00001],SET[00001-00001],SSM[00001-00001],SSW[00001-00001],SWE[00001-00001],SWH[00001-00001],T2P[00001-00001],T2R[00001-00001],T32[00001-00001],T33[00001-00001],T34[00001-00001],T35[00001-00001],T4X[00001-00001],TAS[00001-00001],TEC[00001-00001],TFJ[00001-00001],TNA[00001-00001],TNX[00001-00001],TRB[00001-00001],TWA[00001-00001],TWG[00001-00001],W1B[00001-00001],W1C[00001-00001],W1E[00001-00001],W1F[00001-00001],WAP[00001-00001],WAW[00001-00001],WJB[00001-00001],WJH[00001-00001],WJW[00001-00001],WJY[00001-00001],WRH[00001-00001],WSJ[00001-00001],WSM[00001-00001],WT6[00001-00001],WTW[00001-00001],WTX[00001-00001],WTY[00001-00001],X5F[00001-00001],X5M[00001-00001],XP2[00001-00001],XP5[00001-00001],XP8[00001-00001],XWL[00001-00001],XX4[00001-00001],YHT[00001-00001],ZAC[00001-00001],ZLK[00001-00001],ZPS[00001-00001]

Pub Type: No Data Available.
Pub Number: No Data Available.
Pub Date: No Data Available.

Root Cause:

1: The pump will hold an air pocket around the shaft/seal on the low pressure side of the pump. This is difficult to purge on certain applications.

Caterpillar Confidential: Yellow
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