

OIL ANALYSIS REPORT

(68538Z) Walgreens - Tractor Machine Id [Walgreens - Tractor] 136A624277

Diesel Engine

PETRO CANADA DURON SHP 10W30 (11 GAL)

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Elevated aluminum (AI) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. No other contaminants were detected in the oil.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

AL) sature SAMPLE INFORMATION method limit/base Sample Number Client Info Sample Date Client Info Machine Age mls Client Info Glient Info Oil Age mls Client Info Glient Info Oil Changed Client Info Glient Info Sample Status Imit/base Sample Status Sample Status CONTAMINATION method imit/base Fuel WC Method >5 Water WC Method >0.2 Glycol WC Method >0.2 Iron ppm ASTM D5185m >80 Chromium ppm ASTM D5185m >2 Nickel ppm ASTM D5185m >3 Aluminum ppm ASTM D5185m >3 Lead ppm ASTM D5185m >3 Aluminum ppm ASTM D5185m >5 Stanadium ppm ASTM D5185m >5 Copper ppm ASTM D5185m >5 Vanadium ppm ASTM D5185m			
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ManganeseppmASTM D5185m0MagnesiumppmASTM D5185m950CalciumppmASTM D5185m1050PhosphorusppmASTM D5185m995ZincppmASTM D5185m1180SulfurppmASTM D5185m2600CONTAMINANTSmethodlimit/baseSiliconppmASTM D5185m>20SodiumppmASTM D5185m>20INFRA-REDmethodlimit/baseSoot %%*ASTM D785m>20IntrationAbs/cm*ASTM D7844>3SulfationAbs/.1mm*ASTM D7415>30	45	44	
CalciumppmASTM D5185m1050PhosphorusppmASTM D5185m995ZincppmASTM D5185m915SulfurppmASTM D5185m2600CONTAMINANTSmethodlimit/baseSiliconppmASTM D5185m>20SodiumppmASTM D5185m>20INFRA-REDmethodlimit/baseSoot %%*ASTM D785m>20INFRA-REDmethodlimit/baseSoot %%*ASTM D7844>3VitrationAbs/cm*ASTM D7624>20SulfationAbs/.1mm*ASTM D7415>30	5	4	
PhosphorusppmASTM D5185m995ZincppmASTM D5185m1180SulfurppmASTM D5185m2600CONTAMINANTSmethodlimit/baseSiliconppmASTM D5185m>20SodiumppmASTM D5185m>20PotassiumppmASTM D5185m>20INFRA-REDmethodlimit/baseSoot %%*ASTM D7844>3VitrationAbs/cm*ASTM D7624>20SulfationAbs/.1mm*ASTM D7415>30	551	641	
ZincppmASTM D5185m1180SulfurppmASTM D5185m2600CONTAMINANTSmethodlimit/baseSiliconppmASTM D5185m>20SodiumppmASTM D5185m>20PotassiumppmASTM D5185m>20INFRA-REDmethodlimit/baseSoot %%*ASTM D7844>3VitrationAbs/cm*ASTM D7624>20SulfationAbs/.1mm*ASTM D7415>30	1637	1829	
ZincppmASTM D5185m1180SulfurppmASTM D5185m2600CONTAMINANTSmethodlimit/baseSiliconppmASTM D5185m>20SodiumppmASTM D5185m>20PotassiumppmASTM D5185m>20INFRA-REDmethodlimit/baseSoot %%*ASTM D7844>3VitrationAbs/cm*ASTM D7624>20SulfationAbs/.1mm*ASTM D7415>30	736	839	
CONTAMINANTSmethodlimit/baseSiliconppmASTM D5185m>20SodiumppmASTM D5185m>20PotassiumppmASTM D5185m>20INFRA-REDmethodlimit/baseSoot %%*ASTM D7844>3VitrationAbs/cm*ASTM D7624>20SulfationAbs/.1mm*ASTM D7415>30	864	1016	
SiliconppmASTM D5185m>20SodiumppmASTM D5185m>20PotassiumppmASTM D5185m>20INFRA-REDmethodlimit/baseSoot %%*ASTM D7844>3VitrationAbs/cm*ASTM D7624>20SulfationAbs/.1mm*ASTM D7415>30	2203	2322	
Sodium ppm ASTM D5185m Potassium ppm ASTM D5185m >20 INFRA-RED method limit/base Soot % % *ASTM D7844 >3 Nitration Abs/cm *ASTM D7624 >20 Sulfation Abs/.1mm *ASTM D7415 >30	current	history1	history2
PotassiumppmASTM D5185m>20INFRA-REDmethodlimit/baseSoot %%*ASTM D7844>3JitrationAbs/cm*ASTM D7624>20SulfationAbs/.1mm*ASTM D7415>30	9	8	
INFRA-REDmethodlimit/baseSoot %%*ASTM D7844>3NitrationAbs/cm*ASTM D7624>20SulfationAbs/.1mm*ASTM D7415>30	<1	8	
Soot % % *ASTM D7844 >3 Nitration Abs/cm *ASTM D7624 >20 Sulfation Abs/.1mm *ASTM D7415 >30	319	252	
Abs/cm*ASTM D7624>20SulfationAbs/.1mm*ASTM D7415>30	current	history1	history2
Sulfation Abs/.1mm *ASTM D7415 >30	0.7	0.4	
Sulfation Abs/.1mm *ASTM D7415 >30	10.2	8.3	
	22.6	22.6	
TEOD DEGNADATION metriod mini/base	current	history1	history2
Dxidation Abs/.1mm *ASTM D7414 >25	23.6	21.2	
Base Number (BN) mg KOH/g ASTM D2896	7.0	8.2	

Sample Rating Trend

NORMAL



OIL ANALYSIS REPORT

