

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id 640M Component

Fluid

Diesel Engine PETRO CANADA DURON SHP 15W40 (--- GAL)

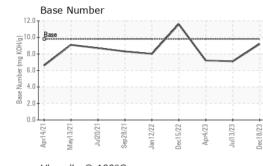


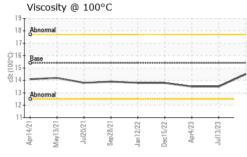


Resample at the next service interval to monitor.Sample DateClient Info18 Dec 202313 Jul 202304 Apr 2023WearMachine AgehrsClient Info915883127607All component wear rates are normal.Oil AgehrsClient Info831276076979Oil ChangedClient InfoNot ChangedChangedChangedChangedChangedChangedThere is no indication of any contamination in the oil.Oil ChangedImageNORMALNORMALNORMALCONTAMINATIONmethodlimit/basecurrenthistory1history2	DIAGNOSIS	SAMPLE INFOR	MATION	Apr2021 Ma	limit/base	Jan2022 Dec2022 Apr2023 Jui20 CUrrent	history1	history2
Resample Date Citent Info 15 Dec 2023 13.utl 2023 04 Apr 2023 War Component wear rates are normal. 01 Age hrs Citent Info 9158 8312 7607 There is no indication of any contamination in test. There is no indication of any contamination in test. NORMAL NORMAL <td< td=""><td>Recommendation</td><td>Sample Number</td><td></td><td>Client Info</td><td></td><td>GFL0105778</td><td>GFL0086702</td><td>GFL0073900</td></td<>	Recommendation	Sample Number		Client Info		GFL0105778	GFL0086702	GFL0073900
Name Name Name Cleant Imode Image	Resample at the next service interval to monitor.	Sample Date		Client Info		18 Dec 2023	13 Jul 2023	04 Apr 2023
All component wear rates are normal. Oil Age hts Client Info 8312 7807 6979 Did Changed Sample Status I Not Changed			hrs					
Changed Client Info Not Rendard Changed Changed <thchanged< th=""> Changed <thchanged<< td=""><td></td><td>-</td><td></td><td>Client Info</td><td></td><td>8312</td><td>7607</td><td>6979</td></thchanged<<></thchanged<>		-		Client Info		8312	7607	6979
Sample Status NORMAL NORMAL NORMAL NORMAL Sample Status Sample Status Current Halcond Puil Condition The BN result indicates that there is suitable all its suitable for further service. NC Method 3.0 <1.0		-						
Oli. CONTAMINATION method limitbass current history1 history2 Fuel WC Method >3.0 <1.0						-		
Fluid Condition Fuel WC Method >3.0 <1.0	oil.		ΓΙΟΝ	method	limit/base			
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Glycol WC Method NEG NEG NEG Veran Department ppm ASTM DS156s >120 2 17 11 Iron ppm ASTM DS156s >20 2 17 10 Chromium ppm ASTM DS156s >20 2 17 10 Nickel ppm ASTM DS156s >20 0 0 0 Silver ppm ASTM DS156s >2 0 0 0 Silver ppm ASTM DS156s >20 2 3 2 Lead ppm ASTM DS156s >300 11 2 2 Iran ppm ASTM DS156s >303 11 2 2 Tin ppm ASTM DS156s >303 11 2 2 Regrow ppm ASTM DS156s 0 0 2 0 ADDITIVES method Immbbase current History1 History2								
WEAR METALS method linibase current History1 history2 Iron ppm ASTM 0585m >120 2 17 11 Chromium ppm ASTM 0585m >5 0 <1	, ,				20.2			
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SulfurppmASTM D5185m2060282035443127CONTAMINAITSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>25844SodiumppmASTM D5185m>20061PotassiumppmASTM D5185m>20112INFRA-REDmethodlimit/basecurrenthistory1history2Soot %%*ASTM D7844>40.11.20.6NitrationAbs/cm*ASTM D7414>204.38.57.9SulfationAbs/timm*ASTM D7415>3017.621.720.0FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2OxidationAbs/timm*ASTM D7414>2513.016.715.1			ppm					
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Nitration Abs/cm *ASTM D7624 >20 4.3 8.5 7.9 Sulfation Abs/1mm *ASTM D7415 >30 17.6 21.7 20.0 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/1mm *ASTM D7414 >25 13.0 16.7 15.1		INFRA-RED		method	limit/base	current	history1	history2
Sulfation Abs/.1mm *ASTM D7415 >30 17.6 21.7 20.0 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 13.0 16.7 15.1		Soot %	%	*ASTM D7844	>4	0.1	1.2	0.6
FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2OxidationAbs/.1mm*ASTM D7414>2513.016.715.1				*ASTM D7624	>20	4.3	8.5	7.9
Oxidation Abs/.1mm *ASTM D7414 >25 13.0 16.7 15.1			Abs/cm	AGTIVI DTOZA				
		Nitration				17.6		
Base Number (BN) mg KOH/g ASTM D2896 9.8 9.2 7.1 7.2		Nitration Sulfation	Abs/.1mm	*ASTM D7415	>30		21.7	20.0
		Nitration Sulfation FLUID DEGRA	Abs/.1mm	*ASTM D7415 method	>30 limit/base	current	21.7 history1	20.0 history2

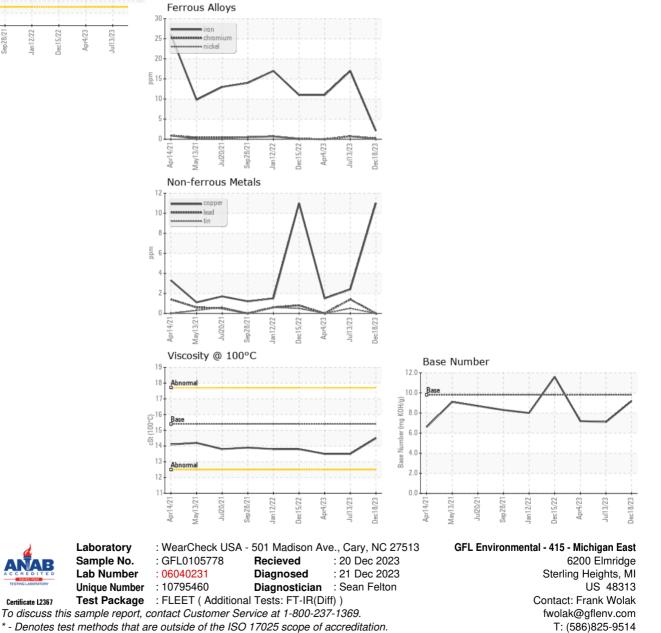


OIL ANALYSIS REPORT





VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.5	13.5	13.5
GRAPHS						



* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Certificate L2367

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