

OIL ANALYSIS REPORT

Sample Rating Trend





Component Diesel Engine Fluid

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

DIAGNOSIS
Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

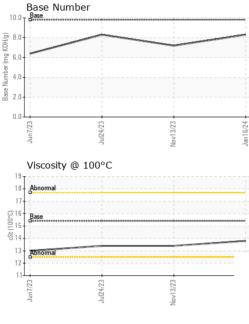
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sample NumberClient InfoGFL0092876GFL0092848GFL00850Sample DateClient Info16 Jan 202413 Nov 202324 Jul 202Machine AgehrsClient Info10634104959897Oil AgehrsClient Info139598278Oil ChangedClient InfoChangedChangedChangedSample StatusImageNORMALNORMALNORMALCONTAMINATIONmethodlimit/basecurrenthistory1history1FuelWC Method>3.0<1.0<1.0<1.0	
Machine AgehrsClient Info10634104959897Oil AgehrsClient Info139598278Oil ChangedClient InfoChangedChangedChangedSample StatusImageNORMALNORMALNORMALCONTAMINATIONmethodlimit/basecurrenthistory1	23
Oil Age hrs Client Info 139 598 278 Oil Changed Client Info Changed Changed Changed Sample Status NORMAL NORMAL NORMAL NORMAL CONTAMINATION method limit/base current history1 history1	
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Sample Status NORMAL NORMAL NORMAL CONTAMINATION method limit/base current history1 history1	
CONTAMINATION method limit/base current history1 histor	
Evol WC Mathed > 2.0 - 1.0 - 1.0 - 1.0	y2
Water WC Method >0.2 NEG NEG NEG	
Glycol WC Method NEG NEG NEG	
WEAR METALS method limit/base current history1 histor	y2
Iron ppm ASTM D5185m >120 1 6 4	
Chromium ppm ASTM D5185m >20 0 <1 0	
Nickel ppm ASTM D5185m >5 0 0 <1	
Titanium ppm ASTM D5185m >2 0 0 0	
Silver ppm ASTM D5185m >2 0 0 0	
Aluminum ppm ASTM D5185m >20 1 2 2	
Lead ppm ASTM D5185m >40 0 <1 <1	
Copper ppm ASTM D5185m >330 <1 <1 <1	
Tin ppm ASTM D5185m >15 <1	
Vanadium ppm ASTM D5185m 0 <1	
Cadmium ppm ASTM D5185m 0 0 0	
ADDITIVES method limit/base current history1 histor	y2
Boron ppm ASTM D5185m 0 9 2 6	
Barium ppm ASTM D5185m 0 0 <1	
Molybdenum ppm ASTM D5185m 60 55 52 59	
Manganese ppm ASTM D5185m 0 <1	
Magnesium ppm ASTM D5185m 1010 902 873 882	
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Magnesium ppm ASTM D5185m 1010 902 873 882	
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Magnesium ppm ASTM D5185m 1010 902 873 882 Calcium ppm ASTM D5185m 1070 969 994 1097 Phosphorus ppm ASTM D5185m 1150 943 903 970 Zinc ppm ASTM D5185m 1270 1183 1147 1189 Sulfur ppm ASTM D5185m 2060 2974 2650 3099 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >25 2 3 2 Sodium ppm ASTM D5185m >20 0 0 1 INFRA-RED method limit/base current history1 history1 Soot % % *ASTM D7844 >4 0.1 0.3 0.2 Nitration Abs/cm *ASTM D7415 >30 17.9 20.7 19.0	y2

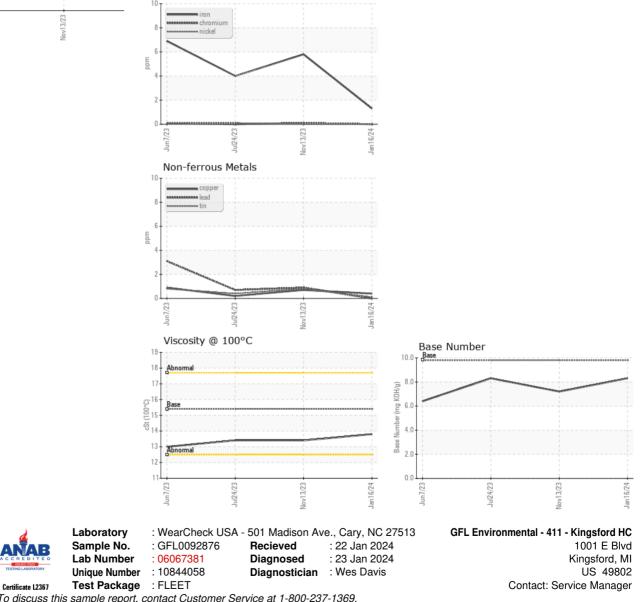


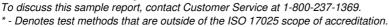
OIL ANALYSIS REPORT

Ferrous Alloys



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	13.8	13.4	13.4
GRAPHS						





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

Submitted By: TECHNICIAN ACCOUNT