

OIL ANALYSIS REPORT

Sample Rating Trend



722007-5003

Component Diesel Engine

Fluid

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

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.

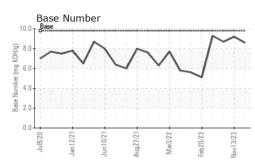
Fluid Condition

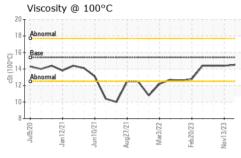
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sample NumberClient InfoGFL0058116GFL0058124GFL0058011Sample DateClient Info05 Mar 202413 Nov 202310 Aug 2023Machine AgehrsClient Info116181130211110Oil AgehrsClient Info15919286Oil ChangedClient InfoNot ChangdChangedChangedSample StatusIINORMALNORMALNORMALCONTAMINATIONmethodlimit/basecurrenthistory1history2FuelWC Method >5<1.0<1.0<1.0WaterWC Method >0.2NEGNEGNEGGlycolWC Method >5.<1.0<1.0<1.0WEAR METALSmethodlimit/basecurrenthistory1history2IronppmASTM D5185m >1004<12ChromiumppmASTM D5185m >20000NickelppmASTM D5185m >300<1SilverppmASTM D5185m >20<110LeadppmASTM D5185m >20<110
Machine AgehrsClient Info116181130211110Oil AgehrsClient Info15919286Oil ChangedClient InfoNot ChangdChangedChangedSample StatusClient InfoNORMALNORMALNORMALCONTAMINATIONmethodlimit/basecurrenthistory1history2FuelWC Method >5<1.0<1.0<1.0WaterWC Method >0.2NEGNEGNEGGlycolWC Method>0.2NEGNEGWEAR METALSmethodlimit/basecurrenthistory1history2IronppmASTM D5185m >1004<12ChromiumppmASTM D5185m >20000NickelppmASTM D5185m >400<1SilverppmASTM D5185m >3000AuminumppmASTM D5185m >20<110
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Fuel WC Method >5 <1.0
Water WC Method >0.2 NEG NEG NEG Glycol WC Method NEG NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >100 4 <1 2 Chromium ppm ASTM D5185m >20 0 0 0 Nickel ppm ASTM D5185m >4 0 0 0 Titanium ppm ASTM D5185m >3 0 0 0 Silver ppm ASTM D5185m >20 <1 1 0
Glycol WC Method NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >100 4 <1
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >100 4 <1 2 Chromium ppm ASTM D5185m >20 0 0 0 Nickel ppm ASTM D5185m >4 0 0 0 Titanium ppm ASTM D5185m >4 0 0 <11 Silver ppm ASTM D5185m >3 0 0 0 Aluminum ppm ASTM D5185m >20 <1 1 0
Iron ppm ASTM D5185m >100 4 <1
Chromium ppm ASTM D5185m >20 0 0 0 Nickel ppm ASTM D5185m >4 0 0 0 Titanium ppm ASTM D5185m O 0 Silver ppm ASTM D5185m >3 0 0 Aluminum ppm ASTM D5185m >20 <1
Nickel ppm ASTM D5185m >4 0 0 0 Titanium ppm ASTM D5185m 0 0 <1
Titanium ppm ASTM D5185m 0 0 <1
Silver ppm ASTM D5185m >3 0 0 0 Aluminum ppm ASTM D5185m >20 <1
Aluminum ppm ASTM D5185m >20 <1
Lead ppm ASTM D5185m >40 0 <1
Copper ppm ASTM D5185m >330 <1
Tin ppm ASTM D5185m >15 <1 <1 <1
Vanadium ppm ASTM D5185m 0 0 0
Cadmium ppm ASTM D5185m 0 0 0
ADDITIVES method limit/base current history1 history2
Boron ppm ASTM D5185m 0 1 7 5
Barium ppm ASTM D5185m 0 0 0 0 0
Molybdenum ppm ASTM D5185m 60 56 58 63
Manganese ppm ASTM D5185m 0 0 0 <1
Magnesium ppm ASTM D5185m 1010 1066 994 1065
Calcium ppm ASTM D5185m 1070 1150 1058 1224
Phosphorus ppm ASTM D5185m 1150 1065 1083 1146
Zinc ppm ASTM D5185m 1270 1330 1346 1441
Sulfur ppm ASTM D5185m 2060 3209 3301 4264
CONTAMINANTS method limit/base current history1 history2
CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>25234
Silicon ppm ASTM D5185m >25 2 3 4
Silicon ppm ASTM D5185m >25 2 3 4 Sodium ppm ASTM D5185m 1 <1
Silicon ppm ASTM D5185m >25 2 3 4 Sodium ppm ASTM D5185m 1 <1
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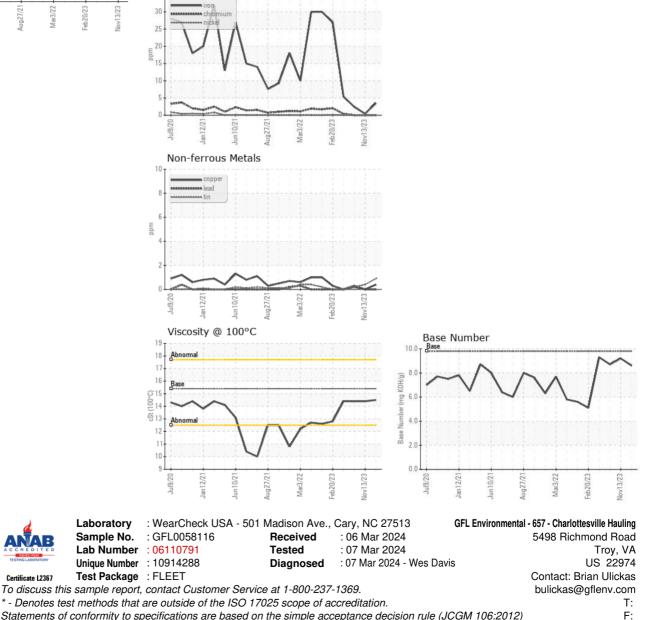


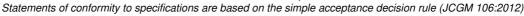


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	14.4	14.4
GRAPHS						

Ferrous Alloys

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Certificate L2367