

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id **4652M** Component **Diesel Engine** Fluid

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

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

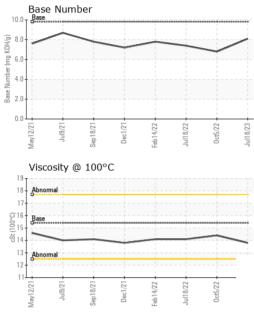
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sample Number Client Info GFL0086645 GFL0057225 GFL0057 Sample Date Client Info 18 Jul 2023 05 Oct 2022 18 Jul 2023 Machine Age hrs Client Info 15907 13580 12855 Oil Age hrs Client Info 13580 12855 11629	
Machine Age hrs Client Info 15907 13580 12855 Oil Age hrs Client Info 13580 12855 11629	5177
Oil Age hrs Client Info 13580 12855 11629)22
Oil Changed Client Info Changed Changed Changed	k
Sample Status NORMAL NORMAL NORMAL	L
CONTAMINATION method limit/base current history1 histor	ory2
Fuel WC Method >3.0 <1.0	
Glycol WC Method NEG NEG NEG	
WEAR METALS method limit/base current history1 histor	ory2
Iron ppm ASTM D5185m >90 17 51 22	
Chromium ppm ASTM D5185m >20 1 1 <1	
Nickel ppm ASTM D5185m >2 0 0 0	
Titanium ppm ASTM D5185m >2 0 0 0	
Silver ppm ASTM D5185m >2 <1	
Aluminum ppm ASTM D5185m >20 2 4 7	
Lead ppm ASTM D5185m >40 0 <1	
Copper ppm ASTM D5185m >330 <1	
Tin ppm ASTM D5185m >15 0 <1	
Antimony ppm ASTM D5185m	
Vanadium ppm ASTM D5185m 0 0 0	
Cadmium ppm ASTM D5185m <1	
ADDITIVES method limit/base current history1 histor	ory2
Boron ppm ASTM D5185m 0 4 3 10	
Barium ppm ASTM D5185m 0 0 0 0 0	
Molybdenum ppm ASTM D5185m 60 55 60 62	
Manganese ppm ASTM D5185m 0 <1	
Manganese ppm ASTM D5185m 0 <1	
Manganese ppm ASTM D5185m 0 <1	
Manganese ppm ASTM D5185m 0 <1	
Manganese ppm ASTM D5185m 0 <1	
Manganese ppm ASTM D5185m 0 <1	
Manganese ppm ASTM D5185m 0 <1	ory2
Manganese ppm ASTM D5185m 0 <1	ory2
Manganese ppm ASTM D5185m 0 <1	ory2
Manganese ppm ASTM D5185m 0 <1	ory2
Manganese ppm ASTM D5185m 0 <1	
Manganese ppm ASTM D5185m 0 <1	
Manganese ppm ASTM D5185m 0 <1	
Manganese ppm ASTM D5185m 0 <1	
Manganese ppm ASTM D5185m 0 <1	ory2
Manganese ppm ASTM D5185m 0 <1	ory2



OIL ANALYSIS REPORT

VISUAL



Non-ferrous Metals	Ferrous Alloys	FLUID PROPERTIES method limit/base current history1 history2 Visc @ 100°C cSt ASTM D445 15.4 13.8 14.4 14.1 GRAPHS Ferrous Alloys Output of the properties of the	Free Water scalar *Visual NEG NEG NEG Free Water scalar *Visual NEG NEG NEG FLUID PROPERTIES method limit/base current history1 history1 Visc @ 100°C cSt ASTM D445 15.4 13.8 14.4 14.1 GRAPHS Ferrous Alloys for the standing of the st			8 - Reasonance lead				
Lei o Li Fêr D Ser La	Ferrous Alloys	FLUID PROPERTIES method limit/base current history1 history2 Visc @ 100°C cSt ASTM D445 15.4 13.8 14.4 14.1 GRAPHS Ferrous Alloys Output of the provide of	C C C C C C C C C C C C C C			Non-ferrous Meta	LL.	uL 0 iuL		
	GRAPHS	FLUID PROPERTIES method limit/base current history1 history2	Coor Scalar Visual NORML NORML NORML NORML NORML PC Emulsified Water scalar *Visual >0.2 NEG NEG NEG Free Water scalar *Visual NEG NEG NEG NEG FLUID PROPERTIES method limit/base current history1 history1	Dec1/21 +	Juit 8/22	50 50 50 50				

Submitted By: Frank Wolak