

OIL ANALYSIS REPORT

Sample Rating Trend





Area GFL035 Machine Id 934048

Fluid

Component Diesel Engine

PETRO CANADA DURON SHP 15W40 (42 QTS)

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 acceptable for the time in service.

Sample Number Client Info GFL01023	nt history1 history2
Sample Number Client Into GFL01023	07 GFL0071605
Sample Date Client Info 22 Dec 202	23 15 Sep 2023
Machine Age hrs Client Info 0	0
Oil Age hrs Client Info 600	600
Oil Changed Client Info Changed	Changed
Sample Status NORMAL	NORMAL
CONTAMINATION method limit/base currer	nt history1 history2
Fuel WC Method >3.0 <1.0	<1.0
Water WC Method >0.2 NEG	NEG
Glycol WC Method NEG	NEG
WEAR METALS method limit/base currer	t history1 history2
Iron ppm ASTM D5185m >120 16	39
Chromium ppm ASTM D5185m >20 <1	<1
Nickel ppm ASTM D5185m >5 0	<1
Titanium ppm ASTM D5185m >2 0	0
Silver ppm ASTM D5185m >2 0	0
Aluminum ppm ASTM D5185m >20 3	10
Lead ppm ASTM D5185m >40 0	1
Copper ppm ASTM D5185m >330 2	11
Tin ppm ASTM D5185m >15 <1	1
Vanadium ppm ASTM D5185m 0	0
Cadmium ppm ASTM D5185m 0	0
ADDITIVES method limit/base currer	t history1 history2
Boron ppm ASTM D5185m 0 8	22
Barium ppm ASTM D5185m 0 0	0
	0
MolybdenumppmASTM D5185m6045	57
Molybdenum ppm ASTM D5185m 60 45	57
Molybdenum ppm ASTM D5185m 60 45 Manganese ppm ASTM D5185m 0 1	57 10
Molybdenum ppm ASTM D5185m 60 45 Manganese ppm ASTM D5185m 0 1 Magnesium ppm ASTM D5185m 1010 546	57 10 717 1393 810
Molybdenum ppm ASTM D5185m 60 45 Manganese ppm ASTM D5185m 0 1 Magnesium ppm ASTM D5185m 1010 546 Calcium ppm ASTM D5185m 1070 1656	57 10 717 1393
Molybdenum ppm ASTM D5185m 60 45 Manganese ppm ASTM D5185m 0 1 Magnesium ppm ASTM D5185m 1010 546 Calcium ppm ASTM D5185m 1070 1656 Phosphorus ppm ASTM D5185m 1150 625	57 10 717 1393 810
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Molybdenum ppm ASTM D5185m 60 45 Manganese ppm ASTM D5185m 0 1 Magnesium ppm ASTM D5185m 0 1 Magnesium ppm ASTM D5185m 1010 546 Calcium ppm ASTM D5185m 1070 1656 Phosphorus ppm ASTM D5185m 1150 625 Zinc ppm ASTM D5185m 1270 920 Sulfur ppm ASTM D5185m 2060 2194 CONTAMINANTS method limit/base current Silicon ppm ASTM D5185m >25 6 Sodium ppm ASTM D5185m 200 4	57 10 717 1393 810 2717 1006 2717 1 history1 history2 23 4 23
Molybdenum ppm ASTM D5185m 60 45 Manganese ppm ASTM D5185m 0 1 Magnesium ppm ASTM D5185m 0 1 Magnesium ppm ASTM D5185m 1010 546 Calcium ppm ASTM D5185m 1070 1656 Phosphorus ppm ASTM D5185m 1150 625 Zinc ppm ASTM D5185m 1270 920 Sulfur ppm ASTM D5185m 2060 2194 CONTAMINANTS method limit/base current Silicon ppm ASTM D5185m >25 6 Sodium ppm ASTM D5185m >20 4 INFRA-RED method limit/base current	57 10 717 1393 810 2717 1006 2717 101 history1 history2 23 23 4 23 1 history1 history2
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Molybdenum ppm ASTM D5185m 60 45 Manganese ppm ASTM D5185m 0 1 Magnesium ppm ASTM D5185m 0 1 Magnesium ppm ASTM D5185m 1010 546 Calcium ppm ASTM D5185m 1070 1656 Phosphorus ppm ASTM D5185m 1070 1656 Phosphorus ppm ASTM D5185m 1070 1656 Phosphorus ppm ASTM D5185m 1270 920 Sulfur ppm ASTM D5185m 2060 2194 CONTAMINANTS method limit/base current Silicon ppm ASTM D5185m >25 6 Sodium ppm ASTM D5185m >20 4 INFRA-RED method limit/base current Soot % % *ASTM D7844 >4 0 Nitration Abs/cm *ASTM D7624 20 12.3	57 10 717 1393 810 2717 1006 2717 101 history1 history2 23 23 10 history1 history2 0.1 9.8 22.1
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VISUAL











