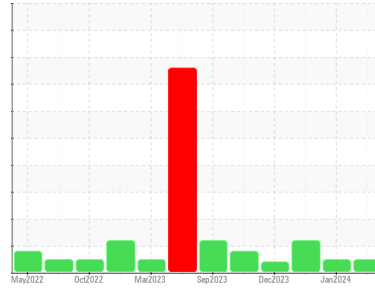




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

811057

Component

Diesel Engine

Fluid

PETRO CANADA DURON SHP 10W30 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

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 INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		GFL0112434	GFL0099549	GFL0099596
Sample Date	Client Info		30 Jun 2024	08 Jan 2024	18 Dec 2023
Machine Age	hrs	Client Info	659	856	731
Oil Age	hrs	Client Info	659	236	111
Oil Changed	Client Info		Changed	Changed	N/A
Sample Status			NORMAL	NORMAL	ABNORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<1.0	<1.0	▲ 3.3
Water	WC Method	>0.2	NEG	NEG	NEG
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >100	67	20	14
Chromium	ppm	ASTM D5185(m) >20	3	1	<1
Nickel	ppm	ASTM D5185(m) >2	<1	<1	<1
Titanium	ppm	ASTM D5185(m) >2	0	0	0
Silver	ppm	ASTM D5185(m) >2	<1	0	<1
Aluminum	ppm	ASTM D5185(m) >25	6	3	3
Lead	ppm	ASTM D5185(m) >40	0	0	0
Copper	ppm	ASTM D5185(m) >330	1	<1	1
Tin	ppm	ASTM D5185(m) >15	3	<1	0
Antimony	ppm	ASTM D5185(m)	0	0	0
Vanadium	ppm	ASTM D5185(m)	0	0	0
Beryllium	ppm	ASTM D5185(m)	0	0	0
Cadmium	ppm	ASTM D5185(m)	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 2	2	1	2
Barium	ppm	ASTM D5185(m) 0	<1	0	0
Molybdenum	ppm	ASTM D5185(m) 50	56	57	58
Manganese	ppm	ASTM D5185(m) 0	1	0	0
Magnesium	ppm	ASTM D5185(m) 950	926	937	943
Calcium	ppm	ASTM D5185(m) 1050	981	1027	1031
Phosphorus	ppm	ASTM D5185(m) 995	941	995	998
Zinc	ppm	ASTM D5185(m) 1180	1149	1151	1149
Sulfur	ppm	ASTM D5185(m) 2600	2260	2616	2648
Lithium	ppm	ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	5	4	4
Sodium	ppm	ASTM D5185(m)	2	1	1
Potassium	ppm	ASTM D5185(m) >20	<1	0	2

INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >3	0.7	0.2	0.1
Nitration	Abs/cm	ASTM D7624* >20	11.8	7.8	6.5
Sulfation	Abs/.1mm	ASTM D7415* >30	24.3	19.6	19.0

