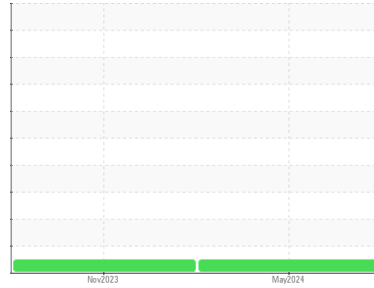




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

0557

Component

Diesel Engine

Fluid

PETRO CANADA DURON SHP 10W30 (--- 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 condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		GFL0119004	GFL0101708	---
Sample Date	Client Info		23 May 2024	20 Nov 2023	---
Machine Age	kms	Client Info	201437	193641	---
Oil Age	kms	Client Info	0	0	---
Oil Changed	Client Info		Changed	N/A	---
Sample Status			NORMAL	NORMAL	---

CONTAMINATION

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

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >100	32	23	---
Chromium	ppm	ASTM D5185(m) >20	2	2	---
Nickel	ppm	ASTM D5185(m) >2	<1	<1	---
Titanium	ppm	ASTM D5185(m) >2	0	0	---
Silver	ppm	ASTM D5185(m) >2	0	0	---
Aluminum	ppm	ASTM D5185(m) >25	16	12	---
Lead	ppm	ASTM D5185(m) >40	0	0	---
Copper	ppm	ASTM D5185(m) >330	2	2	---
Tin	ppm	ASTM D5185(m) >15	0	0	---
Antimony	ppm	ASTM D5185(m)	0	0	---
Vanadium	ppm	ASTM D5185(m)	0	0	---
Beryllium	ppm	ASTM D5185(m)	0	0	---
Cadmium	ppm	ASTM D5185(m)	0	0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 2	5	2	---
Barium	ppm	ASTM D5185(m) 0	0	0	---
Molybdenum	ppm	ASTM D5185(m) 50	59	57	---
Manganese	ppm	ASTM D5185(m) 0	<1	0	---
Magnesium	ppm	ASTM D5185(m) 950	932	925	---
Calcium	ppm	ASTM D5185(m) 1050	1035	1011	---
Phosphorus	ppm	ASTM D5185(m) 995	1001	978	---
Zinc	ppm	ASTM D5185(m) 1180	1143	1160	---
Sulfur	ppm	ASTM D5185(m) 2600	2441	2470	---
Lithium	ppm	ASTM D5185(m)	<1	<1	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	12	12	---
Sodium	ppm	ASTM D5185(m)	4	4	---
Potassium	ppm	ASTM D5185(m) >20	<1	0	---

INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >3	0.2	0.3	---
Nitration	Abs/cm	ASTM D7624* >20	11.9	11.2	---
Sulfation	Abs/.1mm	ASTM D7415* >30	20.3	20.5	---

