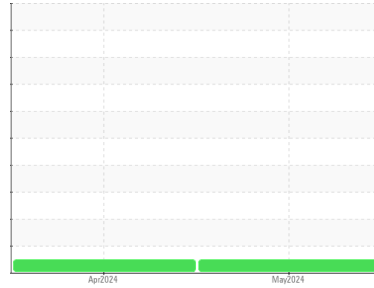




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

200227

Component

Diesel Engine

Fluid

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

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		GFL0118568	GFL0118565	---
Sample Date	Client Info		23 May 2024	25 Apr 2024	---
Machine Age	kms	Client Info	537933	537195	---
Oil Age	kms	Client Info	0	0	---
Oil Changed	Client Info		Changed	Changed	---
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)	>110	6	23	---
Chromium	ppm	ASTM D5185(m)	>4	0	<1	---
Nickel	ppm	ASTM D5185(m)	>2	0	<1	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)	>2	0	0	---
Aluminum	ppm	ASTM D5185(m)	>25	<1	2	---
Lead	ppm	ASTM D5185(m)	>45	0	0	---
Copper	ppm	ASTM D5185(m)	>85	<1	2	---
Tin	ppm	ASTM D5185(m)	>4	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	9	14	---
Barium	ppm	ASTM D5185(m)	0	0	0	---
Molybdenum	ppm	ASTM D5185(m)	50	58	62	---
Manganese	ppm	ASTM D5185(m)	0	0	<1	---
Magnesium	ppm	ASTM D5185(m)	950	959	951	---
Calcium	ppm	ASTM D5185(m)	1050	1052	1095	---
Phosphorus	ppm	ASTM D5185(m)	995	967	973	---
Zinc	ppm	ASTM D5185(m)	1180	1133	1169	---
Sulfur	ppm	ASTM D5185(m)	2600	2552	2542	---
Lithium	ppm	ASTM D5185(m)		<1	<1	---

CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>30	1	2	---
Sodium	ppm	ASTM D5185(m)		<1	2	---
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	---

INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>3	0	0.2	---
Nitration	Abs/cm	ASTM D7624*	>20	5.6	9.6	---
Sulfation	Abs./1mm	ASTM D7415*	>30	17.9	19.5	---

