



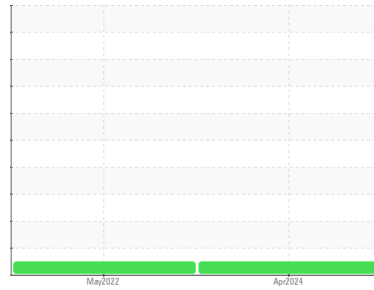
OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
4774
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON XL SYN BLEND 15W40 (--- 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		GFL0117298	GFL0052599	---
Sample Date	Client Info		26 Apr 2024	25 May 2022	---
Machine Age	hrs	Client Info	191	21623	---
Oil Age	hrs	Client Info	191	0	---
Oil Changed	Client Info		Changed	Changed	---
Sample Status			NORMAL	NORMAL	---

CONTAMINATION

	method	limit/base	current	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	current	history1	history2
Iron	ppm	ASTM D5185(m) >120	10	3	---
Chromium	ppm	ASTM D5185(m) >20	0	0	---
Nickel	ppm	ASTM D5185(m) >5	<1	<1	---
Titanium	ppm	ASTM D5185(m) >2	0	0	---
Silver	ppm	ASTM D5185(m) >2	0	0	---
Aluminum	ppm	ASTM D5185(m) >20	<1	1	---
Lead	ppm	ASTM D5185(m) >40	0	<1	---
Copper	ppm	ASTM D5185(m) >330	<1	2	---
Tin	ppm	ASTM D5185(m) >15	0	<1	---
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) 1	2	4	---
Barium	ppm	ASTM D5185(m) 1	0	0	---
Molybdenum	ppm	ASTM D5185(m) 60	61	56	---
Manganese	ppm	ASTM D5185(m) 1	0	<1	---
Magnesium	ppm	ASTM D5185(m) 1010	973	947	---
Calcium	ppm	ASTM D5185(m) 1070	1062	1126	---
Phosphorus	ppm	ASTM D5185(m) 1150	1006	1055	---
Zinc	ppm	ASTM D5185(m) 1270	1179	1195	---
Sulfur	ppm	ASTM D5185(m) 2060	2666	2745	---
Lithium	ppm	ASTM D5185(m)	<1	0	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	3	6	---
Sodium	ppm	ASTM D5185(m)	1	2	---
Potassium	ppm	ASTM D5185(m) >20	0	3	---

INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >4	1	0	---
Nitration	Abs/cm	ASTM D7624* >20	5.8	5.1	---
Sulfation	Abs./1mm	ASTM D7415* >30	19.5	21.0	---

