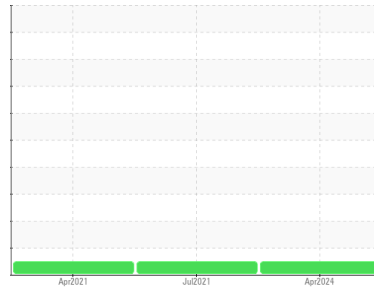




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
(PA8124)

Machine Id
926000

Component
Diesel Engine

Fluid
PETRO CANADA DURON SHP 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. 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		GFL0029323	GFL0029350	GFL0020071
Sample Date	Client Info		27 Apr 2024	29 Jul 2021	24 Apr 2021
Machine Age	hrs	Client Info	19681	14243	13662
Oil Age	hrs	Client Info	800	575	545
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			NORMAL	NORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<1.0	<1.0	<1.0
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) >110	39	23	14
Chromium	ppm	ASTM D5185(m) >4	1	2	<1
Nickel	ppm	ASTM D5185(m) >2	0	0	0
Titanium	ppm	ASTM D5185(m)	0	0	0
Silver	ppm	ASTM D5185(m) >2	0	<1	<1
Aluminum	ppm	ASTM D5185(m) >25	6	2	2
Lead	ppm	ASTM D5185(m) >45	7	1	<1
Copper	ppm	ASTM D5185(m) >85	2	<1	<1
Tin	ppm	ASTM D5185(m) >4	<1	<1	<1
Antimony	ppm	ASTM D5185(m)	0	<1	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) 0	6	5	7
Barium	ppm	ASTM D5185(m) 0	0	0	0
Molybdenum	ppm	ASTM D5185(m) 60	64	61	60
Manganese	ppm	ASTM D5185(m) 0	<1	<1	<1
Magnesium	ppm	ASTM D5185(m) 1010	1008	1046	1007
Calcium	ppm	ASTM D5185(m) 1070	1200	1094	1111
Phosphorus	ppm	ASTM D5185(m) 1150	1087	1100	1046
Zinc	ppm	ASTM D5185(m) 1270	1267	1282	1325
Sulfur	ppm	ASTM D5185(m) 2060	2519	2576	2713
Lithium	ppm	ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >30	10	4	4
Sodium	ppm	ASTM D5185(m)	2	2	2
Potassium	ppm	ASTM D5185(m) >20	13	2	3

INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >3	0.9	0.2	0.2
Nitration	Abs/cm	ASTM D7624* >20	12.1	8.7	8.4
Sulfation	Abs./1mm	ASTM D7415* >30	24.8	21.0	20.9

