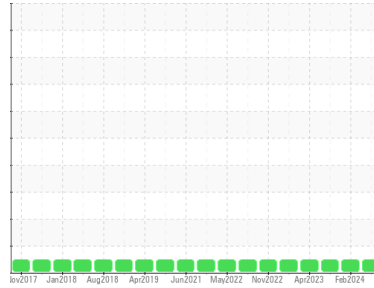




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
4556
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON XL SYN BLEND 15W40 (--- 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 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		GFL0112465	GFL0112410	GFL0091632
Sample Date	Client Info		20 Mar 2024	17 Feb 2024	25 Sep 2023
Machine Age	kms	Client Info	475784	15735	15176
Oil Age	kms	Client Info	0	0	0
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			NORMAL	NORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>3.0	<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) >130	24	56	97
Chromium	ppm	ASTM D5185(m) >10	<1	<1	2
Nickel	ppm	ASTM D5185(m) >4	<1	<1	1
Titanium	ppm	ASTM D5185(m) >2	0	0	0
Silver	ppm	ASTM D5185(m) >2	0	0	<1
Aluminum	ppm	ASTM D5185(m) >20	1	2	2
Lead	ppm	ASTM D5185(m) >20	0	0	0
Copper	ppm	ASTM D5185(m) >125	<1	<1	2
Tin	ppm	ASTM D5185(m) >4	0	0	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) 1	9	3	3
Barium	ppm	ASTM D5185(m) 1	0	0	<1
Molybdenum	ppm	ASTM D5185(m) 60	55	55	59
Manganese	ppm	ASTM D5185(m) 1	0	0	0
Magnesium	ppm	ASTM D5185(m) 1010	896	902	949
Calcium	ppm	ASTM D5185(m) 1070	990	1013	1064
Phosphorus	ppm	ASTM D5185(m) 1150	939	966	994
Zinc	ppm	ASTM D5185(m) 1270	1115	1118	1199
Sulfur	ppm	ASTM D5185(m) 2060	2469	2637	2480
Lithium	ppm	ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	2	8	9
Sodium	ppm	ASTM D5185(m)	1	1	2
Potassium	ppm	ASTM D5185(m) >20	0	<1	<1

INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >6	0.1	0.1	0.4
Nitration	Abs/cm	ASTM D7624* >20	5.5	5.5	8.0
Sulfation	Abs./1mm	ASTM D7415* >30	18.9	18.1	19.8

