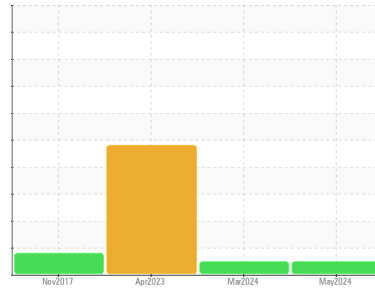




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

401023

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		GFL0117353	GFL0117334	GFL0077551
Sample Date	Client Info		04 May 2024	30 Mar 2024	24 Apr 2023
Machine Age	kms	Client Info	557960	553954	14374
Oil Age	kms	Client Info	0	0	83
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			NORMAL	NORMAL	SEVERE

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	0.0

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>100	12	37	56
Chromium	ppm	ASTM D5185(m)	>20	<1	1	2
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>3	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	2	6	4
Lead	ppm	ASTM D5185(m)	>40	0	1	10
Copper	ppm	ASTM D5185(m)	>330	14	71	401
Tin	ppm	ASTM D5185(m)	>15	0	<1	1
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	13	2	3
Barium	ppm	ASTM D5185(m)	1	0	<1	4
Molybdenum	ppm	ASTM D5185(m)	60	58	61	57
Manganese	ppm	ASTM D5185(m)	1	<1	<1	3
Magnesium	ppm	ASTM D5185(m)	1010	890	975	901
Calcium	ppm	ASTM D5185(m)	1070	1035	1082	1074
Phosphorus	ppm	ASTM D5185(m)	1150	941	952	975
Zinc	ppm	ASTM D5185(m)	1270	1094	1194	1121
Sulfur	ppm	ASTM D5185(m)	2060	2413	2209	2291
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>25	4	10	▲ 53
Sodium	ppm	ASTM D5185(m)		3	3	8
Potassium	ppm	ASTM D5185(m)	>20	<1	1	<1

INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>3	0.2	0.9	0.6
Nitration	Abs/cm	ASTM D7624*	>20	6.1	9.8	8.5
Sulfation	Abs./1mm	ASTM D7415*	>30	18.8	21.6	19.7

