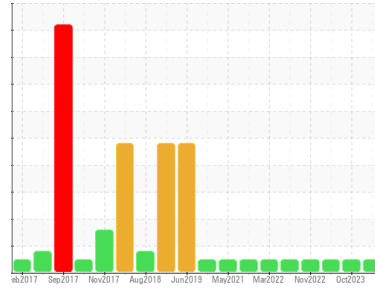




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
9103

Component
Front Diesel Engine

Fluid
PETRO CANADA DURON XL SYN BLEND 15W40 (31 LTR)

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		GFL0099616	GFL0091583	GFL0077597
Sample Date	Client Info		21 Jan 2024	31 Oct 2023	03 May 2023
Machine Age	kms	Client Info	85404	687033	30000
Oil Age	kms	Client Info	635	0	4487
Oil Changed	Client Info		N/A	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)	>100	43	91	68
Chromium	ppm	ASTM D5185(m)	>20	3	6	4
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>3	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	2	2	3
Lead	ppm	ASTM D5185(m)	>40	3	8	5
Copper	ppm	ASTM D5185(m)	>330	2	3	5
Tin	ppm	ASTM D5185(m)	>15	<1	<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	2	3	2
Barium	ppm	ASTM D5185(m)	1	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	60	60	62	62
Manganese	ppm	ASTM D5185(m)	1	0	<1	1
Magnesium	ppm	ASTM D5185(m)	1010	972	981	980
Calcium	ppm	ASTM D5185(m)	1070	1132	1124	1154
Phosphorus	ppm	ASTM D5185(m)	1150	1045	1007	1097
Zinc	ppm	ASTM D5185(m)	1270	1233	1243	1224
Sulfur	ppm	ASTM D5185(m)	2060	2707	2396	2477
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>25	4	7	7
Sodium	ppm	ASTM D5185(m)		4	6	6
Potassium	ppm	ASTM D5185(m)	>20	<1	0	0

INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>3	1.6	2.6	2.5
Nitration	Abs/cm	ASTM D7624*	>20	11.6	13.0	13.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	24.7	27.6	27.5

