

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 819010

Component Diesel Engine

Fluid PETRO CANADA DURON HP 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.

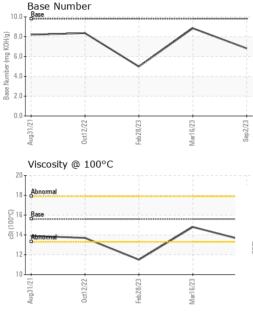
Fluid Condition

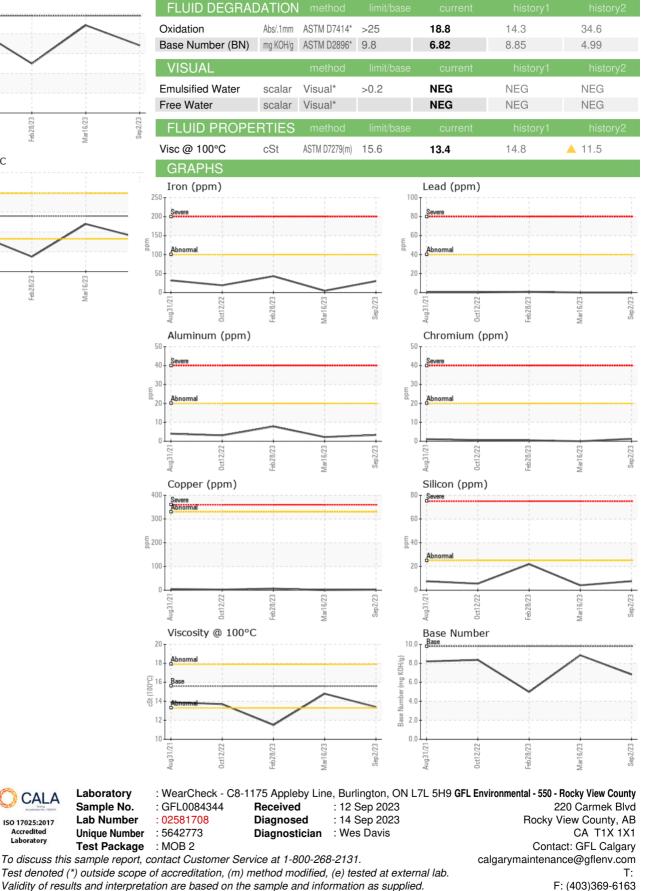
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0084344	GFL0044542	GFL0044534
Sample Date		Client Info		02 Sep 2023	16 Mar 2023	28 Feb 2023
Machine Age	kms	Client Info		126802	10000	38142
Oil Age	kms	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINATI	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	2 .4
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	30	5	43
Chromium	ppm	ASTM D5185(m)	>20	1	0	<1
Nickel	ppm	ASTM D5185(m)	>4	0	0	<1
Titanium	ppm	ASTM D5185(m)		0	<1	<1
Silver	ppm	ASTM D5185(m)	>3	<1	0	0
Aluminum	ppm	ASTM D5185(m)	>20	3	2	8
Lead	ppm	ASTM D5185(m)	>40	0	0	<1
Copper	ppm	ASTM D5185(m)	>330	3	<1	7
Tin	ppm	ASTM D5185(m)	>15	0	0	<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	2	2	95
Barium	ppm	ASTM D5185(m)	0	0	0	3
Molybdenum	ppm	ASTM D5185(m)	60	56	57	23
Manganese	ppm	ASTM D5185(m)	0	<1	<1	2
Magnesium	ppm	ASTM D5185(m)	1010	900	927	353
Calcium	ppm	ASTM D5185(m)	1070	990	1033	797
Phosphorus	ppm	ASTM D5185(m)	1150	970	1046	928
Zinc	ppm	. ,	1270	1148	1111	571
Sulfur	ppm	ASTM D5185(m)	2060	2176	2549	2092
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	8	4	22
Sodium	ppm	ASTM D5185(m)		8	2	10
Potassium	ppm	ASTM D5185(m)	>20	1	1	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	1.3	0	0
Nitration	Abs/cm	ASTM D7624*	>20	9.7	5.8	6.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.1	21.0	34.5



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Validity of results and interpretation are based on the sample and information as supplied.

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