

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 0547

Fluid

Component Diesel Engine

PETRO CANADA DURON HP 15W40 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

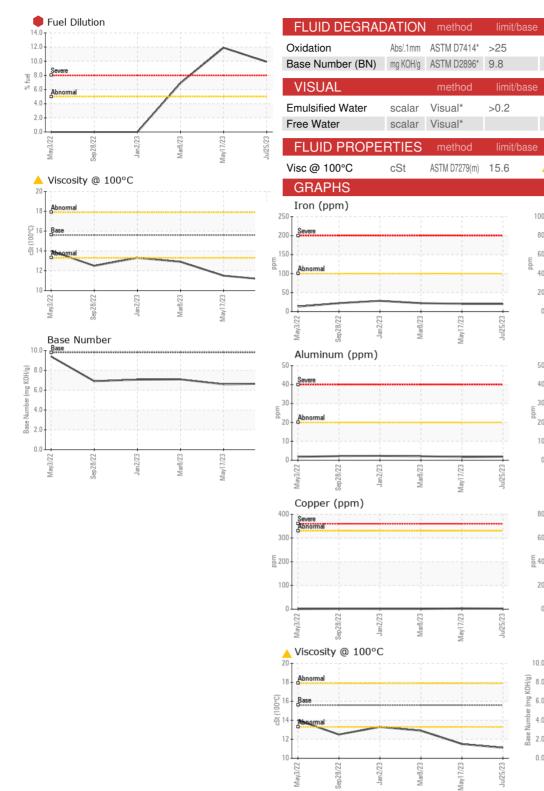
Fluid Condition

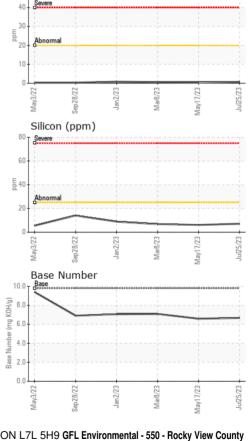
The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

		May2022	Sep2022 Jan2023	Mar2023 May2023	Jul2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0084296	GFL0077605	GFL0070744
Sample Date		Client Info		25 Jul 2023	17 May 2023	08 Mar 2023
Machine Age	kms	Client Info		336924	323824	17245
Oil Age	kms	Client Info		0	0	0
Oil Changed		Client Info		N/A	Changed	N/A
Sample Status				SEVERE	SEVERE	ABNORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	20	20	22
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	<1	<1
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	2	2	2
Lead	ppm	ASTM D5185(m)	>40	4	5	2
Copper	ppm	ASTM D5185(m)	>330	3	4	2
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)	0	2	2	2
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	49	50	53
Manganese	ppm	ASTM D5185(m)	0	<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	796	806	844
Calcium	ppm	ASTM D5185(m)	1070	853	919	1046
Phosphorus	ppm	ASTM D5185(m)	1150	896	907	984
Zinc	ppm	ASTM D5185(m)	1270	985	992	1076
Sulfur	ppm	ASTM D5185(m)	2060	2063	2119	2333
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	7	6	7
Sodium	ppm	ASTM D5185(m)		2	2	2
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Fuel	%	ASTM D7593*	>5	9.9	11.9	▲ 6.9
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.4	0.5	0.5
Nitration	Abs/cm	ASTM D7624*	>20	12.4	11.8	12.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	26.7	23.8	24.9



OIL ANALYSIS REPORT





history1

23.0

7.09

NEG

NEG

12.9

/ay17/23

Aar8/73

history2

26.6

6.59

NEG

NEG

11.5

an2/73

32.6

6.67

NEG

NEG

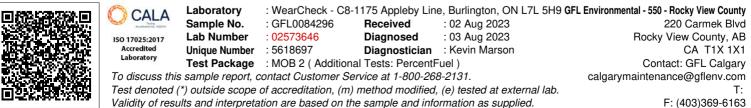
🔺 11.1

0

CCISVEN

Lead (ppm)

Chromium (ppm)



Contact/Location: GFL Calgary - GFL550