

OIL ANALYSIS REPORT

Sample Rating Trend





4485 Component

Machine Id

Fluid

Front Diesel Engine

PETRO CANADA 15W30 (39 LTR)

DIAGNOSIS Recommendation

Resample at the next service interval to monitor. The fluid was specified as PETRO CANADA 15W30, however, a fluid match indicates that this fluid is SAE 40 Diesel Engine Oil. Please confirm the oil type and grade on your next sample.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

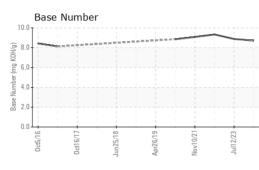
Fluid Condition

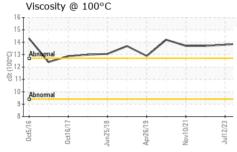
The BN result indicates that there is suitable alkalinity remaining in the oil. Viscosity of sample indicates oil is within SAE 40 range, advise investigate. The condition of the oil is suitable for further service.

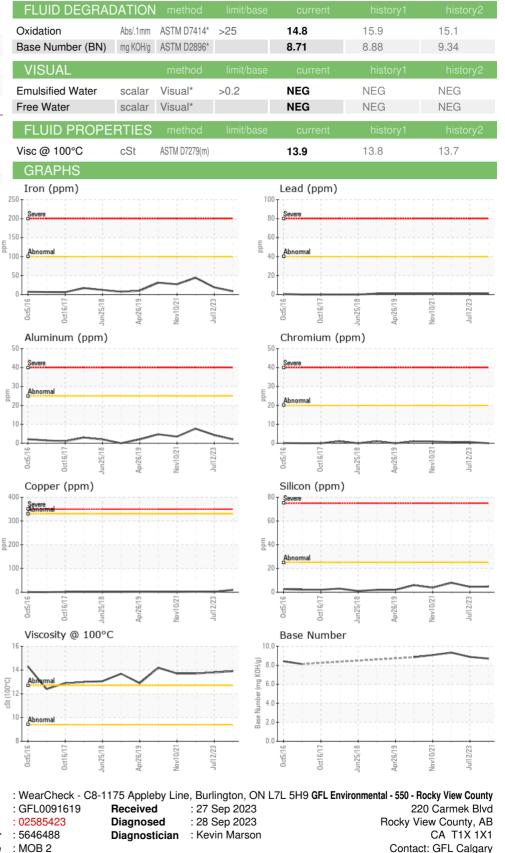
		Oct2016	Oct2017 Jun2018	Apr2019 Nov2021 J	ul2023	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0091619	GFL0084267	GFL0077545
Sample Date		Client Info		20 Sep 2023	12 Jul 2023	28 Mar 2023
Machine Age	kms	Client Info		1020066	1010506	34670
Oil Age	kms	Client Info		9742	0	600
Oil Changed		Client Info		Changed	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINA	ΓΙΟΝ	method	limit/base	current	history1	history2
Fuel		WC Method	>6.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAI	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	8	19	44
Chromium	ppm	ASTM D5185(m)	>20	0	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	0	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>2	<1	0	0
Aluminum	ppm	ASTM D5185(m)	>25	2	4	8
Lead	ppm	ASTM D5185(m)	>40	1	1	<1
Copper	ppm	ASTM D5185(m)	>330	10	2	2
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
Antimony	ppm	ASTM D5185(m)		0	0	<1
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)		3	3	5
Barium	ppm	ASTM D5185(m)		<1	0	0
Molybdenum	ppm	ASTM D5185(m)		58	57	60
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)		932	957	944
Calcium	ppm	ASTM D5185(m)		1033	1033	1093
Phosphorus	ppm	ASTM D5185(m)		979	1024	1094
Zinc	ppm	ASTM D5185(m)		1158	1165	1178
Sulfur	ppm	ASTM D5185(m)		2535	2480	2628
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	5	4	8
Sodium	ppm	ASTM D5185(m)		5	8	20
Potassium	ppm	ASTM D5185(m)	>20	0	<1	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.2	0.5	0.3
Nitration	Abs/cm	ASTM D7624*	>20	6.5	7.6	7.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.1	20.6	21.9



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Laboratory Test Package : MOB 2 To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

cSt (100°C)

Laboratory

Sample No.

Lab Number

Unique Number

Report Id: GFL550 [WCAMIS] 02585423 (Generated: 09/28/2023 09:07:50) Rev: 1

CALA

ISO 17025:2017

Accredited

Submitted By: GFL Calgary Page 2 of 2

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