

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



DIAGNOSIS Recommendation

Contamination

Fluid Condition

Wear

oil.

Machine Id 510005 Component

Fluid

Resample at the next service interval to monitor.

There is no indication of any contamination in the

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

All component wear rates are normal.

oil is suitable for further service.

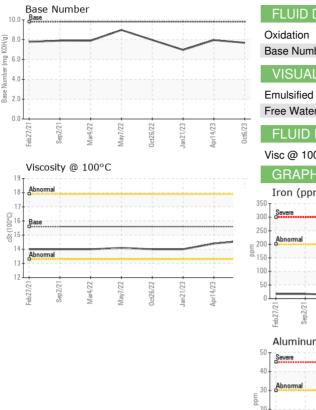
Diesel Engine

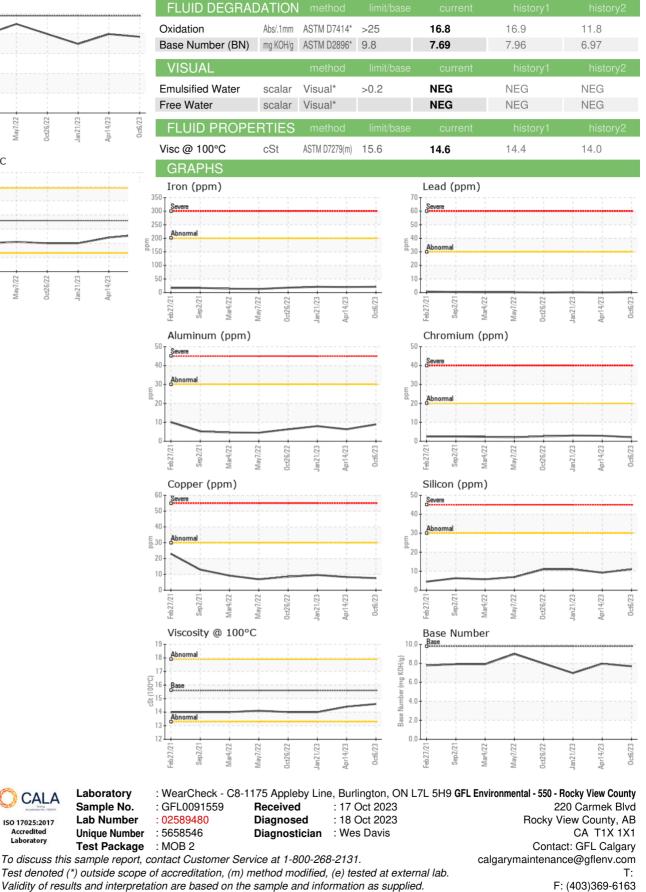
PETRO CANADA DURON HP 15W40 (--- GAL)

CIN FIF TOW40 (CAL) Feb2021 Mar2022 Mar2022 Dec2022 Jan2023 Apr2023 Dec2023						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0091559	GFL0077548	GFL006377
Sample Date		Client Info		06 Oct 2023	14 Apr 2023	21 Jan 2023
Machine Age	kms	Client Info		328224	7779	7280
Oil Age	kms	Client Info		0	495	561
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINA	ΓΙΟΝ	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAI	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>200	21	20	21
Chromium	ppm	ASTM D5185(m)	>20	2	3	3
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	<1	<1
Silver	ppm	ASTM D5185(m)	>2	<1	0	0
Aluminum	ppm	ASTM D5185(m)	>30	9	6	8
Lead	ppm	ASTM D5185(m)	>30	<1	0	<1
Copper	ppm	ASTM D5185(m)	>30	8	8	10
Tin	ppm	ASTM D5185(m)	>15	<1	<1	<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	5	1	2
Barium	ppm	ASTM D5185(m)	0	<1	0	0
Molybdenum	ppm	ASTM D5185(m)	60	59	59	60
Manganese	ppm	ASTM D5185(m)	0	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	952	960	968
Calcium	ppm	ASTM D5185(m)	1070	1160	1170	1138
Phosphorus	ppm	ASTM D5185(m)	1150	984	1059	1051
Zinc	ppm	ASTM D5185(m)	1270	1232	1207	1246
Sulfur	ppm	ASTM D5185(m)	2060	2314	2366	2300
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>30	11	9	11
Sodium	ppm	ASTM D5185(m)		3	2	2
Potassium	ppm	ASTM D5185(m)	>20	3	1	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.4	0.6	0.2
Nitration	Abs/cm	ASTM D7624*	>20	8.5	8.5	6.3



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CALA

ISO 17025:2017 Accredited

Laboratory

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