

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id 4669M Component **Diesel Engine** Fluid

PETRO CANADA DURON

Oxidation

Abs/.1mm *ASTM D7414 >25

Base Number (BN) mg KOH/g ASTM D2896 9.8

SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0104353	GFL0104140	GFL0059229
Sample Date		Client Info		07 Dec 2023	01 Dec 2023	16 Nov 2023
lachine Age	mls	Client Info		113778	113541	112511
Dil Age	mls	Client Info		112748	1030	108397
Dil Changed		Client Info		N/A	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINA	TION	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 META	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	8	21	7
Chromium	ppm	ASTM D5185m	>5	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>30	4	2	4
_ead	ppm	ASTM D5185m	>30	0	3	<1
Copper	ppm	ASTM D5185m	>150	0	2	11
Tin	ppm	ASTM D5185m	>5	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	38	3
Barium	ppm	ASTM D5185m	0	0	0	0
Volybdenum	ppm	ASTM D5185m	60	47	46	55
Manganese	ppm	ASTM D5185m		0	<1	<1
Vagnesium	ppm	ASTM D5185m	1010	853	509	930
Calcium	ppm	ASTM D5185m	1070	924	1744	1053
Phosphorus	ppm	ASTM D5185m	1150	891	988	989
Zinc	ppm	ASTM D5185m		1068	1174	1200
Sulfur	ppm	ASTM D5185m		2626	3468	2937
CONTAMINA		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	2	7	6
Sodium	ppm	ASTM D5185m	00	3	0	4
Potassium	ppm	ASTM D5185m	>20	9	1	5
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.9	0.2
Nitration	Abs/cm	*ASTM D7624	>20	13.6	13.4	5.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.6	24.7	18.5

29.0

6.2

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.

13.9

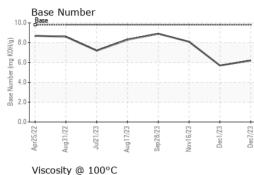
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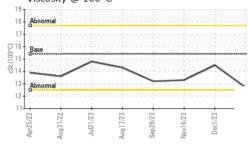
25.9

5.7

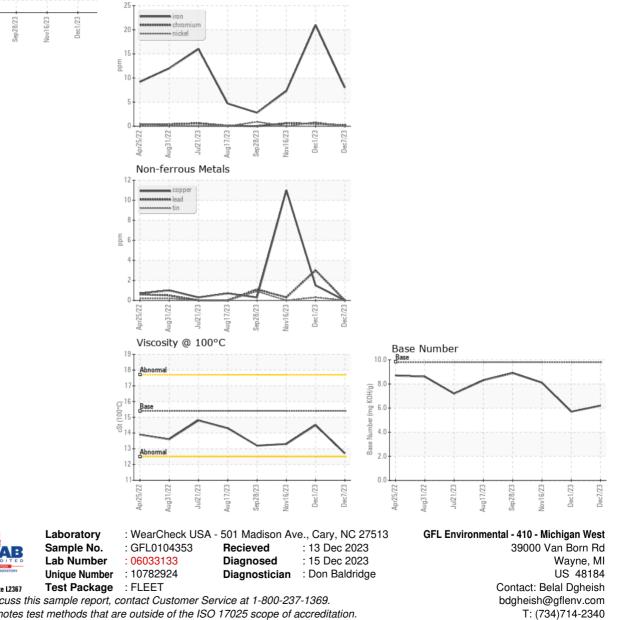


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	12.7	14.5	13.3
GRAPHS						
Ferrous Alloys						



Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Submitted By: Belal Dgheish

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