

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id 411016-1387 Component

Diesel Engine

PETRO CANADA DUR

DIAGNOSIS Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

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 INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0103052	GFL0102809	GFL009048
Sample Date		Client Info		21 Dec 2023	01 Dec 2023	15 Nov 2023
lachine Age	hrs	Client Info		3966	3901	3836
Dil Age	hrs	Client Info		130	3836	580
Oil Changed		Client Info		Changed	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ΓΙΟΝ	method	limit/base	current	history1	history2
uel		WC Method	>3.0	<1.0	<1.0	<1.0
Vater		WC Method	>0.2	NEG	NEG	NEG
âlycol		WC Method		NEG	NEG	NEG
WEAR METAL	_S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>120	15	9	45
Chromium	ppm	ASTM D5185m	>20	<1	<1	1
lickel	ppm	ASTM D5185m	>5	0	<1	0
itanium	ppm	ASTM D5185m	>2	<1	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Muminum	ppm	ASTM D5185m	>20	11	9	34
.ead	ppm	ASTM D5185m	>40	0	<1	<1
Copper	ppm	ASTM D5185m	>330	1	0	2
in	ppm	ASTM D5185m	>15	<1	<1	0
/anadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	6	8	<1
Barium	ppm	ASTM D5185m	0	9	0	0
Nolybdenum	ppm	ASTM D5185m	60	64	60	63
Manganese	ppm	ASTM D5185m	0	0	<1	<1
/lagnesium	ppm	ASTM D5185m	1010	922	925	996
Calcium	ppm	ASTM D5185m	1070	1118	1070	1120
Phosphorus	ppm	ASTM D5185m	1150	1003	1090	1075
linc	ppm	ASTM D5185m	1270	1217	1298	1316
Sulfur	ppm	ASTM D5185m	2060	3020	3267	3058
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	3	8
Sodium	ppm	ASTM D5185m		0	<1	2
Potassium	ppm	ASTM D5185m	>20	12	8	40
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.3	0.2	0.7
litration	Abs/cm	*ASTM D7624	>20	6.8	5.9	11.4
Sulfation						21.7

Oxidation

Abs/.1mm *ASTM D7414 >25

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

13.9

8.5

14.3

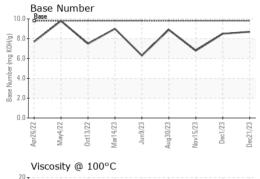
8.7

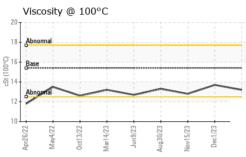
19.4

6.8



OIL ANALYSIS REPORT

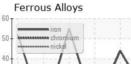


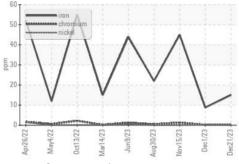


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

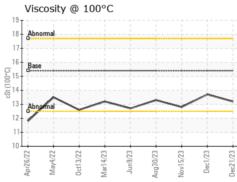
FLUID PROP	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.2	13.7	12.8

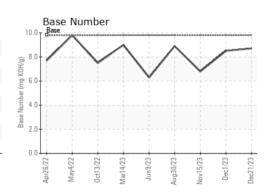
GRAPHS















Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** Test Package : FLEET

: GFL0103052 : 06045441

: 10806049

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 26 Dec 2023

Diagnosed : 27 Dec 2023 Diagnostician : Wes Davis

GFL Environmental - 622 - Traverse City Hauling

160 Hughes Dr Traverse City, MI US 49686

Contact: GARY BREWER

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)

T:

F: