

# **OIL ANALYSIS REPORT**

# Sample Rating Trend

# **NORMAL**



Machine Id **721022-361655** 

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.

RON SHP 15W40 ( GAL)						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number Sample Date		Client Info		GFL0108097 01 Feb 2024	GFL0102505 28 Dec 2023	GFL0102538 27 Nov 2023
Machine Age	hrs	Client Info		26934	26770	26577
Oil Age	hrs	Client Info		26770	0	0
Oil Changed		Client Info		Not Changd	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ON	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 METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	15	33	18
Chromium	ppm	ASTM D5185m	>5	<1	1	0
Nickel	ppm	ASTM D5185m	>2	<1	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>30	3	2	<1
Lead	ppm	ASTM D5185m	>30	1	7	0
Copper	ppm	ASTM D5185m	>150	0	1	0
Tin	ppm	ASTM D5185m	>5	<1	<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	2	1	1
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	54	53	57
Manganese	ppm	ASTM D5185m	0	<1	<1	0
Magnesium	ppm	ASTM D5185m	1010	883	831	985
Calcium	ppm	ASTM D5185m	1070	962	938	1140
Phosphorus	ppm	ASTM D5185m	1150	1017	952	1112
Zinc	ppm	ASTM D5185m	1270	1224	1094	1275
Sulfur	ppm	ASTM D5185m	2060	2973	2619	3149

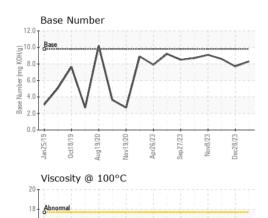
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	54	53	57
Manganese	ppm	ASTM D5185m	0	<1	<1	0
Magnesium	ppm	ASTM D5185m	1010	883	831	985
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CONTAMINAN	TS	method	limit/base	current	history1	history2
CONTAMINAN Silicon	TS ppm	method ASTM D5185m		current 6	history1	history2 4
					•	,
Silicon	ppm	ASTM D5185m ASTM D5185m		6	6	4
Silicon Sodium	ppm ppm	ASTM D5185m ASTM D5185m	>20	6 4	6 9	4

Soot %	%	*ASTM D7844	>3	0.9	1.7	0.9
Nitration	Abs/cm	*ASTM D7624	>20	7.5	10.5	7.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.0	22.9	20.6
FLUID DEGRAI	OATION	method	limit/base	current	history1	history2
Out deathers	Al / d	*AOTM D7444	05	440	40.0	40.4



cSt (100°C)

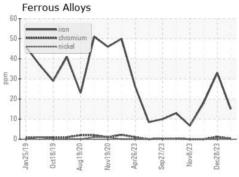
# **OIL ANALYSIS REPORT**

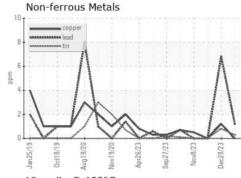


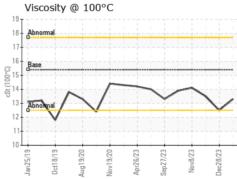
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

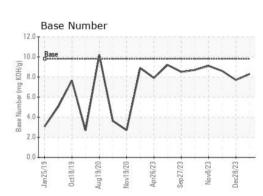
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.3	12.5	13.5

# **GRAPHS**













Laboratory Sample No. Lab Number : 06088034

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

: GFL0108097

Unique Number : 10875479

Received **Tested** Diagnosed

: 13 Feb 2024 : 14 Feb 2024 : 14 Feb 2024 - Wes Davis

GFL Environmental - 837 - Harrison TS

22820 S State Route 291 Harrisonville, MO

US 64701 Contact: JOHNNY PEREZ johnny.perez@gflenv.com

Test Package : FLEET 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)

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