

# **OIL ANALYSIS REPORT**

# Sample Rating Trend

# NORMAL



Machine Id 913009 Component Diesel Engine

PETRO CANADA DURON SHP 15W40 (36 QTS)

# 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

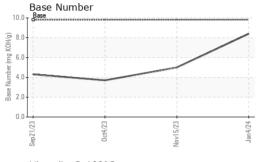
# **Fluid Condition**

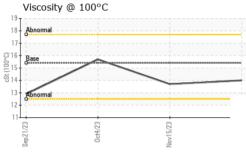
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		Sep 202	3 Oct2023	Nov2023 Ji	in2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0104188	GFL0059269	GFL0084978
Sample Date		Client Info		04 Jan 2024	15 Nov 2023	04 Oct 2023
Machine Age	hrs	Client Info		3635	2693	2742
Oil Age	hrs	Client Info		3050	2693	585
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINATI	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<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	>120	2	61	85
Chromium	ppm	ASTM D5185m	>20	0	2	3
Nickel	ppm	ASTM D5185m	>5	0	5	1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	0	2	4
Lead	ppm	ASTM D5185m	>40	<1	<1	6
Copper	ppm	ASTM D5185m		<1	13	2
Tin	ppm		>15	0	2	<1
Vanadium	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	<1	3	4
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	60	53	64	63
Manganese	ppm	ASTM D5185m		0	1	1
Magnesium	ppm	ASTM D5185m	1010	924	962	979
Calcium	ppm	ASTM D5185m	1070	984	1107	1112
Phosphorus	ppm	ASTM D5185m	1150	945	1029	1101
Zinc	ppm	ASTM D5185m	1270	1251	1307	1344
Sulfur	ppm	ASTM D5185m	2060	2910	2270	2851
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm		>25	2	8	10
Sodium	ppm	ASTM D5185m	>L0	<1	5	34
Potassium	ppm	ASTM D5185m	>20	<1	2	4
INFRA-RED	PP	method	limit/base		history1	history2
	0/					
Soot %	%	*ASTM D7844	>4	0.2	1.3	1.5
Nitration	Abs/cm	*ASTM D7624	>20	5.7	11.1	13.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.3	23.5	25.0
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.1	21.8	26.1
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.4	5.0	▲ 3.7



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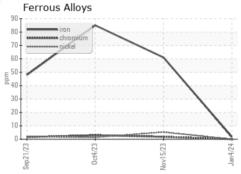


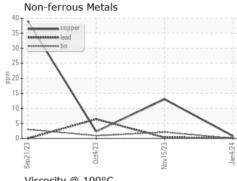


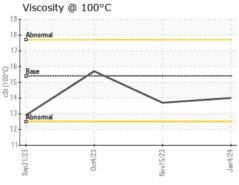
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

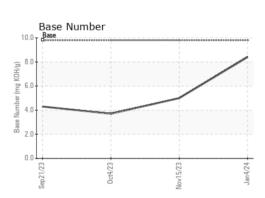
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.0	13.7	15.7

# **GRAPHS**













Certificate L2367

Laboratory

Sample No. Lab Number Unique Number : 10829163 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0104188 : 06057781

Recieved : 11 Jan 2024 Diagnosed Diagnostician : Wes Davis

: 12 Jan 2024

GFL Environmental - 410 - Michigan West

39000 Van Born Rd Wayne, MI US 48184 Contact: Tony Esquina

tesquina@gflenv.com

T: F:

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)