

# **OIL ANALYSIS REPORT**

## Sample Rating Trend

# Sample nating Treitu







428061-402360

Component **Diesel Engine** 

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

# 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

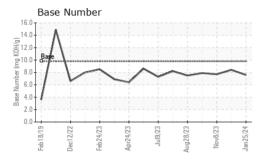
## **Fluid Condition**

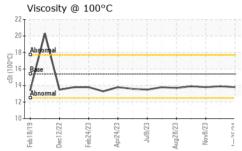
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

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SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0088136	GFL0088140	GFL0088213
Sample Date		Client Info		25 Jan 2024	03 Jan 2024	08 Nov 2023
Machine Age	mls	Client Info		340593	336845	330390
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ON	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	4	2	4
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	1	2
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	<1	0	0
Tin	ppm	ASTM D5185m	>15	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	0	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	60	59	61
Manganese	ppm	ASTM D5185m	0	0	0	0
Magnesium	ppm	ASTM D5185m	1010	957	1023	1101
Calcium	ppm	ASTM D5185m	1070	1086	1069	1189
Phosphorus	ppm	ASTM D5185m	1150	1016	1069	1177
Zinc	ppm	ASTM D5185m	1270	1309	1310	1526
Sulfur	ppm	ASTM D5185m	2060	3055	3251	3476
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	3	5
Sodium	ppm	ASTM D5185m		2	1	2
Potassium	ppm	ASTM D5185m	>20	0	<1	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.2	0.2	0.3
Nitration	Abs/cm	*ASTM D7624	>20	7.1	5.8	7.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.3	18.1	19.0
			11 11 0		111	history ()
FLUID DEGRAD	PATION	method				history2
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Oxidation  Base Number (BN)	Abs/.1mm mg KOH/g	*ASTM D7414 ASTM D2896	>25 9.8	current 14.5 7.6	13.9 8.4	15.0 7.7



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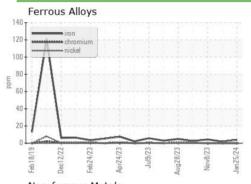


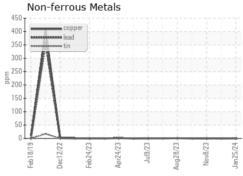


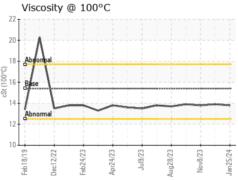
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

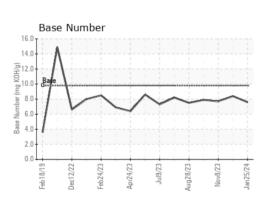
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	13.9	13.8

## **GRAPHS**













Certificate L2367

Laboratory Sample No. Lab Number : 06085626

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0088136

Unique Number : 10873071 Test Package : FLEET

Received **Tested** 

: 12 Feb 2024 Diagnosed

: 12 Feb 2024 : 12 Feb 2024 - Wes Davis

GFL Environmental - 820 - Joplin Hauling 3700 West 7th Street

Joplin, MO US 64801

Contact: James Jarrett

jjarrett@gflenv.com T: (417)310-2802

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)