

# **OIL ANALYSIS REPORT**

Sample Rating Trend







Machine Id 913051

Component **Diesel Engine** 

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

## 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

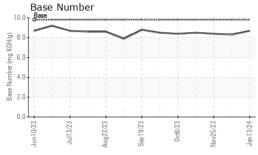
## **Fluid Condition**

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

QTS)  Juni2023 Juli2023 Aug/2023 Sup 2023 Oct 2023 Nov 2023 Juni2024  Juni2023 Juni2024 Sup 2023 Sup 2023 Oct 2023 Nov 2023 Juni2024						
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0068862	GFL0097158	GFL0097187
Sample Date		Client Info		13 Jan 2024	22 Dec 2023	25 Nov 2023
Machine Age	hrs	Client Info		2292	2097	1950
Oil Age	hrs	Client Info		195	1029	882
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	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 METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	3	3	3
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	2	5	4
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	<1	0	<1
Tin	ppm	ASTM D5185m	>15	0	2	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	4	<1	4
Barium	ppm	ASTM D5185m	0	<1	0	0
Molybdenum	ppm	ASTM D5185m	60	56	51	52
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	945	864	867
Calcium	ppm	ASTM D5185m	1070	1006	897	932
Phosphorus	ppm	ASTM D5185m	1150	1077	967	998
Zinc	ppm	ASTM D5185m	1270	1239	1217	1186
Sulfur	ppm	ASTM D5185m	2060	3169	2905	2941
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	1	2
Sodium	ppm	ASTM D5185m	0.0	2	<1	3
Potassium	ppm	ASTM D5185m		3	14	10
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.2	0.3	0.2
Nitration	Abs/cm	*ASTM D7624	>20	4.8	5.8	5.3
Sulfation	Abs/.1mm	*ASTM D7415		16.9	17.3	17.5
FLUID DEGRA		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.5	12.8	12.5
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.7	8.3	8.4



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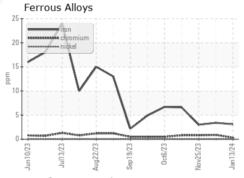


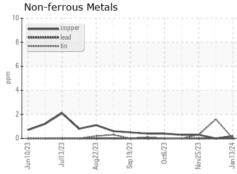
8 - Abnormal			1	<u> </u>	
17-					
16 Base	***********				
14-		<u></u>			
13 - Abnormal					
12					
11					_

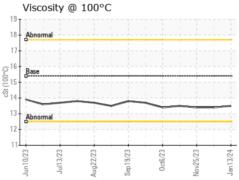
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

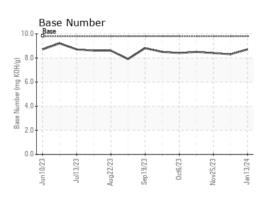
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.5	13.4	13.4

## **GRAPHS**













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10836727 Test Package : FLEET

: GFL0068862 : 06065345

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

: 19 Jan 2024 : 20 Jan 2024 Diagnostician : Wes Davis

GFL Environmental - 073 - Warner Robins - Transwaste

155 Story Road Warner Robins, GA US 31093

Contact: JOSH MALONEY

jmaloney@gflenv.com T:

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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