

## **OIL ANALYSIS REPORT**

Sample Rating Trend





Component Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- GAL

N SHP 15W40 (	GAL)	Jui2022 Dec	2022 Jun2023 Jun2023	Aug2023 Sep2023 Occ2023 Jan20	24 Mar2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0100958	GFL0100875	GFL0086862
Sample Date		Client Info		12 Mar 2024	02 Jan 2024	05 Oct 2023
Machine Age	hrs	Client Info		69112	55703	55703
Dil Age	hrs	Client Info		1200	600	55703
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
<sup>=</sup> uel		WC Method	>5	<1.0	<1.0	<1.0
Nater		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>80	31	57	41
Chromium	ppm	ASTM D5185m	>5	2	3	2
Nickel	ppm	ASTM D5185m	>2	<1	<1	<1
Fitanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>30	4	7	0
_ead	ppm	ASTM D5185m	>30	<1	0	0
Copper	ppm	ASTM D5185m	>150	3	5	4
Гin	ppm	ASTM D5185m	>5	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	2	6	5
Barium	ppm	ASTM D5185m	0	0	0	<1
Molybdenum	ppm	ASTM D5185m	60	66	60	61
Manganese	ppm	ASTM D5185m	0	<1	1	<1
Magnesium	ppm	ASTM D5185m	1010	942	861	832
Calcium	ppm	ASTM D5185m	1070	1159	1281	1240
Phosphorus	ppm	ASTM D5185m	1150	1049	957	962
Zinc	ppm	ASTM D5185m	1270	1233	1232	1211
Sulfur	ppm	ASTM D5185m	2060	2917	2490	2820
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	6	10	9
Sodium	ppm	ASTM D5185m		4	10	5
Potassium	ppm	ASTM D5185m	>20	6	11	11
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.7	1.1	0.8
Nitration	Abs/cm	*ASTM D7624	>20	10.7	12.8	10.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.9	25.4	22.1
FLUID DEGRA	DATION	method	limit/base	current	history1	history2

18.3

7.1

### DIAGNOSIS Recommendation

Resample at the next service interval to monitor.

Machine Id

#### 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.

Oxidation

Abs/.1mm \*ASTM D7414 >25

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

20.3

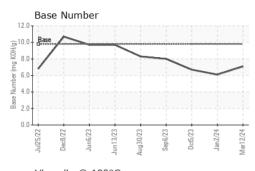
6.7

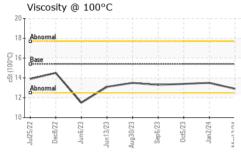
23.8

6.1

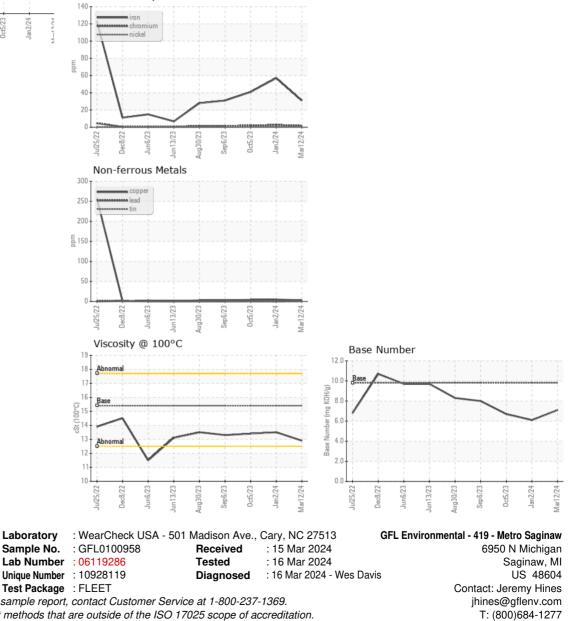


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	12.9	13.5	13.4
GRAPHS						
Ferrous Alloys						



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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