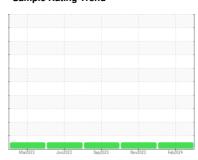


# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



Machine Id **527065** 

Component **Diesel Engine** 

PETRO CANADA DURON SHP 15W40 (40 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

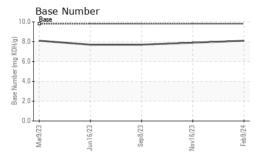
### **Fluid Condition**

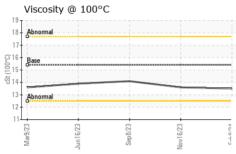
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

QTS)		Mar2023	Jun2023	Sep2023 Nov2023	Feb2024	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number Sample Date Machine Age	hrs	Client Info Client Info Client Info		GFL0110751 09 Feb 2024 13895	GFL0092842 16 Nov 2023 13331	GFL0085633 08 Sep 2023 12780
Oil Age Oil Changed Sample Status	hrs	Client Info Client Info		564 Changed NORMAL	551 Changed NORMAL	590 Changed NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel Water Glycol		WC Method WC Method	>5 >0.2	<1.0 NEG NEG	<1.0 NEG NEG	<1.0 NEG NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron Chromium	ppm ppm	ASTM D5185m ASTM D5185m	>100 >20	12	10 <1	15
Nickel Titanium Silver	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>4	1 <1 <1	<1 <1 0	<1 <1 0
Aluminum Lead Copper	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>40	6 <1 5	3 <1 4	5 <1 3
Tin Vanadium	ppm	ASTM D5185m ASTM D5185m	>15	<1 <1	<1 0	1 <1
Cadmium	ppm	ASTM D5185m		<1	<1	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60	2 0 60	2 0 61	2 0 61
Manganese Magnesium	ppm		0	<1 938	<1 961	<1 1016
Calcium Phosphorus Zinc	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	1070 1150 1270	1105 1028 1197	1163 926 1228	1208 1037 1298
Sulfur	ppm	ASTM D5185m	2060	3326	3004	3395
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon Sodium	ppm ppm	ASTM D5185m ASTM D5185m	>25	4 0	4 0 3	4 3 5
Potassium  INFRA-RED	ppm	ASTM D5185m method	>20 limit/base	3 current	history1	history2
Soot % Nitration Sulfation	% Abs/cm Abs/.1mm	*ASTM D7844 *ASTM D7624 *ASTM D7415	>3	0.3 8.1 19.3	0.4 8.4 19.9	0.4 8.6 19.1
FLUID DEGRAD			limit/base	current	history1	history2
Oxidation Base Number (BN)	Abs/.1mm mg KOH/g	*ASTM D7414 ASTM D2896	>25 9.8	16.3 8.1	16.6 7.9	15.6 7.7



# **OIL ANALYSIS REPORT**

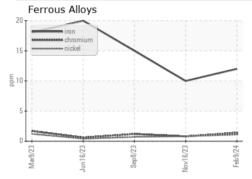


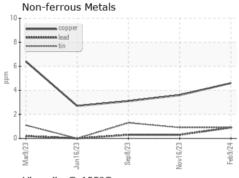


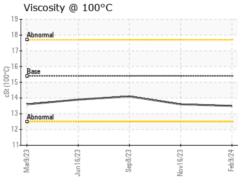
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

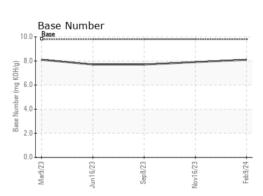
FLUID PROPE	KIIES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.4	13.5	13.6	14.1

### **GRAPHS**













Certificate L2367

Laboratory Sample No.

Test Package : FLEET

: GFL0110751 Lab Number : 06090771 Unique Number: 10883624

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

Diagnosed

: 19 Feb 2024 : 19 Feb 2024 - Wes Davis

: 15 Feb 2024

GFL Environmental - 411 - Kingsford HC

1001 E Blvd Kingsford, MI US 49802

Contact: Service Manager

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)

T:

F: