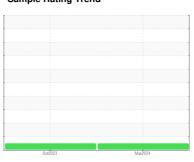


# **OIL ANALYSIS REPORT**

Sample Rating Trend







Machine Id **523083**Component

**Diesel Engine** 

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

## 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

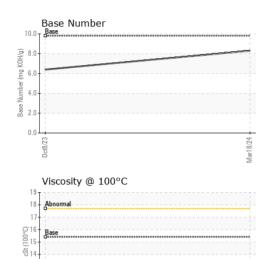
### **Fluid Condition**

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

ΓR)			0 ct 2023	Mar2024		
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0108486	GFL0066030	
Sample Date		Client Info		18 Mar 2024	08 Oct 2023	
Machine Age	mls	Client Info		0	0	
Oil Age	mls	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				NORMAL	NORMAL	
CONTAMINA	TION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR META	LS	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>80	3	9	
Chromium	ppm	ASTM D5185m	>5	0	1	
Nickel	ppm	ASTM D5185m	>2	0	0	
Titanium	ppm	ASTM D5185m		0	<1	
Silver	ppm	ASTM D5185m	>3	0	<1	
Aluminum	ppm	ASTM D5185m	>30	1	3	
_ead	ppm	ASTM D5185m	>30	1	6	
Copper	ppm	ASTM D5185m	>150	<1	5	
Tin	ppm	ASTM D5185m	>5	<1	3	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	5	11	
Barium	ppm	ASTM D5185m	0	0	<1	
Molybdenum	ppm	ASTM D5185m	60	55	59	
Manganese	ppm	ASTM D5185m	0	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	951	849	
Calcium	ppm	ASTM D5185m	1070	1082	1123	
Phosphorus	ppm	ASTM D5185m	1150	1012	962	
Zinc	ppm	ASTM D5185m	1270	1254	1170	
Sulfur	ppm	ASTM D5185m	2060	3444	2661	
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm		>20	4	10	
Sodium	ppm	ASTM D5185m		<1	3	
Potassium	ppm	ASTM D5185m	>20	<1	4	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.1	
Vitration	Abs/cm	*ASTM D7624	>20	7.2	8.5	
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.5	20.7	
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.9	17.4	



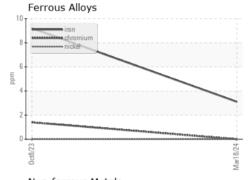
## **OIL ANALYSIS REPORT**

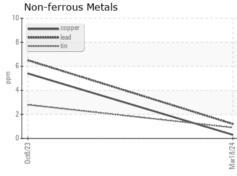


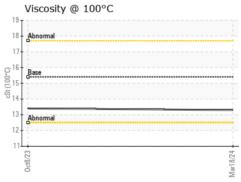
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance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

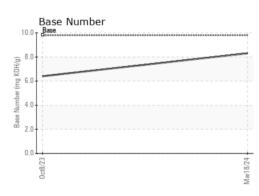
FLUID PROP	ERHES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.3	13.4	

### **GRAPHS**













Laboratory Sample No.

Lab Number : 06126306 Unique Number : 10940457

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0108486 Received : 22 Mar 2024 **Tested** : 25 Mar 2024

Diagnosed : 25 Mar 2024 - Wes Davis

GFL Environmental - 904 - Chippewa Falls HC

11888 & 11863 30th Avenue Chippewa Falls, WI US 54729

Contact: Andy Kane

Test Package : FLEET 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)

F:

T: (715)202-3420