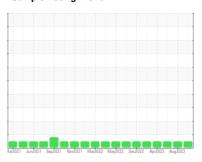


# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



Machine Id 411013 Component

**Diesel Engine** 

PETRO CANADA DURON SHP 15W40 (44 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

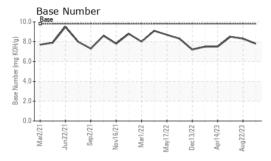
### **Fluid Condition**

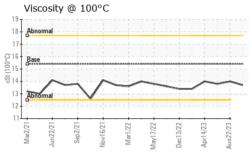
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

โลช2021 Jun2021 Sep2021 Nov2021 May2022 May2022 Dec2022 Apr2023 Aurg2023							
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0088502	GFL0088552	GFL0083304	
Sample Date		Client Info		04 Jan 2024	22 Aug 2023	29 Jun 2023	
Machine Age	hrs	Client Info		3085	3085	3085	
Oil Age	hrs	Client Info		586	407	576	
Oil Changed		Client Info		N/A	N/A	N/A	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINATIO	NC	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		method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>120	8	8	5	
Chromium	ppm	ASTM D5185m	>20	<1	<1	0	
Nickel	ppm	ASTM D5185m	>15	<1	0	0	
Titanium	ppm	ASTM D5185m	>2	0	0	<1	
Silver	ppm	ASTM D5185m	>3	0	0	0	
Aluminum	ppm	ASTM D5185m	>20	2	2	<1	
	ppm	ASTM D5185m	>40	<1	<1	0	
	ppm	ASTM D5185m	>330	5	1	1	
	ppm		>15	<1	<1	<1	
	ppm	ASTM D5185m		0	0	0	
	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	6	6	0	
Barium	ppm	ASTM D5185m	0	0	0	14	
Molybdenum	ppm	ASTM D5185m	60	59	88	46	
Manganese	ppm	ASTM D5185m	0	<1	<1	0	
Magnesium	ppm	ASTM D5185m	1010	904	1395	743	
	ppm	ASTM D5185m	1070	1127	1615	852	
Phosphorus	ppm	ASTM D5185m	1150	1023	1532	806	
	ppm	ASTM D5185m	1270	1247	1864	1038	
	ppm	ASTM D5185m	2060	2929	4909	2854	
CONTAMINANT	S	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	5	6	2	
Sodium	ppm	ASTM D5185m		2	2	<1	
Potassium	ppm	ASTM D5185m	>20	4	7	5	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>4	0.3	0.2	0.3	
	Abs/cm	*ASTM D7624	>20	8.5	6.7	7.9	
	Abs/.1mm	*ASTM D7415	>30	19.8	18.6	19.9	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.0	14.2	15.4	
	mg KOH/g	ASTM D2896	9.8	7.8	8.3	8.5	
Dasc Number (DIN)	mg NOTI/g	AOTIVI DZ000	0.0	7.0	0.0	0.0	



# **OIL ANALYSIS REPORT**

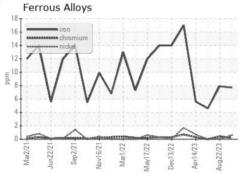


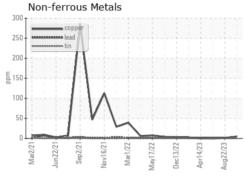


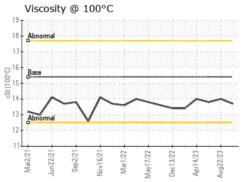
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

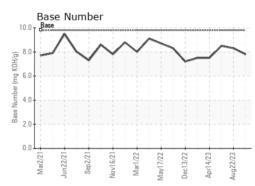
FLUID PROPE	RHES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.4	13.7	14.0	13.8

### **GRAPHS**













Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** 

: 06051402 : 10817351 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0088502 Recieved : 04 Jan 2024 : 05 Jan 2024

Diagnosed Diagnostician : Don Baldridge GFL Environmental - 017 - Durham

148 Stone Park Court Durham, NC US 27703

Contact: William Russel william.russell@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)

F: (919)598-1852