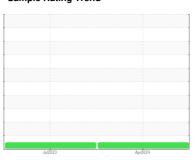


# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



Machine Id **425165** 

Component **Diesel Engine** 

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

### 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

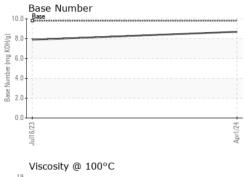
#### **Fluid Condition**

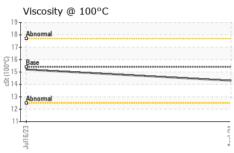
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

AL)			Jul2023	Apr2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0066309	GFL0060514	
Sample Date		Client Info		01 Apr 2024	16 Jul 2023	
лаchine Age	mls	Client Info		0	451898	
Dil Age	mls	Client Info		0	0	
Oil Changed		Client Info		N/A	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
uel		WC Method	>5	<1.0	<1.0	
Vater		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>110	4	15	
Chromium	ppm	ASTM D5185m	>4	0	<1	
Nickel	ppm	ASTM D5185m	>2	0	0	
- itanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>25	1	1	
ead	ppm	ASTM D5185m	>45	<1	7	
Copper	ppm	ASTM D5185m	>85	<1	1	
- Tin	ppm	ASTM D5185m	>4	0	0	
/anadium	ppm	ASTM D5185m		<1	<1	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	6	17	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	61	73	
Manganese	ppm	ASTM D5185m	0	0	<1	
/lagnesium	ppm	ASTM D5185m	1010	1053	998	
Calcium	ppm	ASTM D5185m	1070	1246	1596	
Phosphorus	ppm	ASTM D5185m	1150	1110	1159	
Zinc	ppm	ASTM D5185m	1270	1321	1442	
Sulfur	ppm	ASTM D5185m	2060	4028	3894	
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	4	9	
Sodium	ppm	ASTM D5185m		6	62	
Potassium	ppm	ASTM D5185m	>20	2	15	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.4	
Vitration	Abs/cm	*ASTM D7624	>20	6.3	12.6	
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.5	26.0	
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.8	25.0	



# **OIL ANALYSIS REPORT**

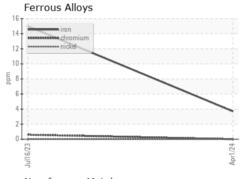


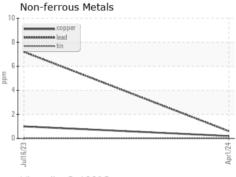


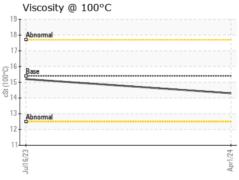
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance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

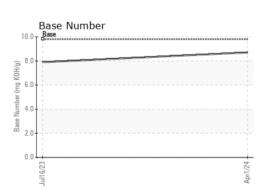
FLUID PROPI	ERHES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.3	15.2	

### **GRAPHS**













Certificate L2367

Laboratory Sample No.

Test Package : FLEET

: GFL0066309 Lab Number : 06136107 Unique Number : 10955572

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 02 Apr 2024 **Tested** : 03 Apr 2024

Diagnosed : 03 Apr 2024 - Wes Davis

GFL Environmental - 938 - Hager City

W9724 WIS-35 HAGER CITY, WI US 54014

T: (715)202-3420

Contact: ANDY KANE

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: