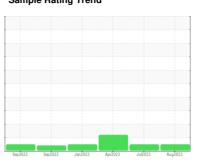


# **OIL ANALYSIS REPORT**

### Sample Rating Trend









423070 Component **Diesel Engine** 

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

# DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the

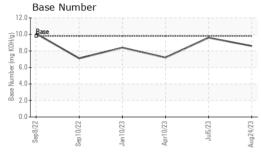
### **Fluid Condition**

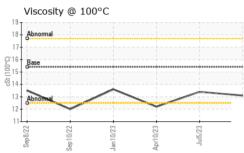
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

14 3111 13 14 40 (	GAL)	Sep2022	Sep2022 Jan2023	Apr2023 Jul2023	Aug2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0069150	GFL0068751	GFL0068980
Sample Date		Client Info		24 Aug 2023	05 Jul 2023	10 Apr 2023
Machine Age	hrs	Client Info		24680	24561	24524
Oil Age	hrs	Client Info		156	37	1211
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				NORMAL	NORMAL	ATTENTION
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<b>△</b> 3.7
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>120	7	4	20
Chromium	ppm	ASTM D5185m	>20	<1	0	<1
Nickel	ppm	ASTM D5185m	>5	<1	<1	3
Titanium	ppm	ASTM D5185m		<1	<1	2
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m		4	<1	3
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m		<1	<1	2
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m	710	0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	9	9	7
Barium	ppm		0	0	0	2
Molybdenum	ppm	ASTM D5185m	60	61	61	58
Manganese	ppm		0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	942	849	792
Calcium	ppm	ASTM D5185m	1070	1061	1072	995
Phosphorus	ppm	ASTM D5185m	1150	1052	981	919
Zinc	ppm	ASTM D5185m	1270	1271	1119	1099
Sulfur	ppm	ASTM D5185m	2060	3930	3038	2900
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	3	6
Sodium	ppm	ASTM D5185m		2	0	1
Potassium	ppm	ASTM D5185m	>20	2	2	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.2	0.1	0.3
Nitration	Abs/cm	*ASTM D7624	>20	6.0	5.7	7.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	16.9	17.7	16.0
FLUID DEGRAI	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.1	13.7	13.8
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.6	9.6	7.2
_ 430 Hallibor (DIV)	mg normy	. 10 1111 D2000	5.0	0.0	0.0	, <u>.</u>



## **OIL ANALYSIS REPORT**

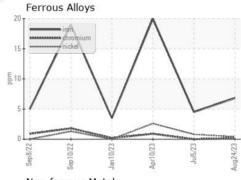


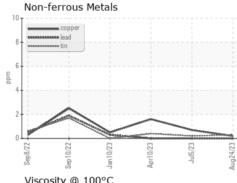


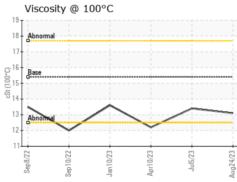
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

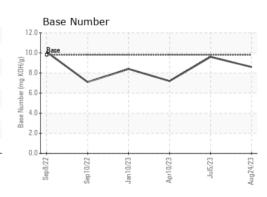
FLUID PROP	EHILO	memoa			History	HISTORYZ
Visc @ 100°C	cSt	ASTM D445	15.4	13.1	13.4	<u> </u>

### **GRAPHS**











Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10628752 Test Package : FLEET

: GFL0069150 : 05938140

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 30 Aug 2023 Diagnosed : 30 Aug 2023

Diagnostician : Wes Davis

GFL Environmental - 073 - Warner Robins - Transwaste

155 Story Road Warner Robins, GA US 31093

Contact: JOSH MALONEY

jmaloney@gflenv.com T:

\* - 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: