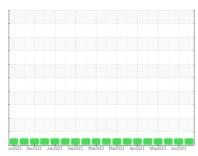


# **OIL ANALYSIS REPORT**

Sample Rating Trend







Machine Id **420052-482** 

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

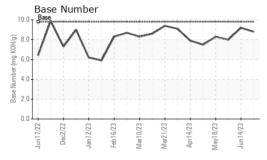
### **Fluid Condition**

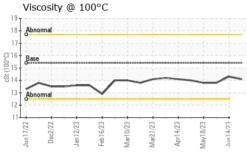
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

undozz Dedozz Jandoz3 Febdoz3 Madoz3 Madoz3 Maydoz3 Jundoz3 Jundoz3							
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0070605	GFL0081140	GFL0081200	
Sample Date		Client Info		10 Jul 2023	14 Jun 2023	26 May 2023	
Machine Age	hrs	Client Info		6652	112539	110074	
Oil Age	hrs	Client Info		200	0	600	
Oil Changed		Client Info		Not Changd	Not Changd	Changed	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2	
Fuel		WC Method	>6.0	<1.0	<1.0	<1.0	
Glycol		WC Method		NEG	NEG	NEG	
WEAR METAL	.S	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>100	4	3	8	
Chromium	ppm	ASTM D5185m	>20	0	<1	<1	
Nickel	ppm	ASTM D5185m	>2	0	0	0	
Titanium	ppm	ASTM D5185m		<1	<1	0	
Silver	ppm	ASTM D5185m	>2	0	0	0	
Aluminum	ppm	ASTM D5185m	>25	2	2	2	
Lead	ppm	ASTM D5185m	>40	<1	1	0	
Copper	ppm	ASTM D5185m	>330	1	<1	2	
Tin	ppm	ASTM D5185m	>15	0	<1	<1	
Vanadium	ppm	ASTM D5185m		<1	<1	0	
Cadmium	ppm	ASTM D5185m		0	<1	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	0	0	3	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	58	59	59	
Manganese	ppm	ASTM D5185m	0	<1	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	991	1015	1004	
Calcium	ppm	ASTM D5185m	1070	1072	1129	1081	
Phosphorus	ppm	ASTM D5185m	1150	1026	1058	1071	
Zinc	ppm	ASTM D5185m	1270	1259	1367	1333	
Sulfur	ppm	ASTM D5185m	2060	3748	3939	3684	
CONTAMINAN	ITS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	3	3	4	
Sodium	ppm	ASTM D5185m		3	2	2	
Potassium	ppm	ASTM D5185m	>20	6	4	3	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.2	0.1	0.3	
Nitration	Abs/cm	*ASTM D7624		6.8	5.9	8.0	
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.5	18.8	19.8	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.2	14.6	16.0	
Base Number (BN)	mg KOH/g	ASTM D2896		8.8	9.2	8.0	
= 3.50 · 101001 (D14)	9		3.0		V.=	0.0	



## **OIL ANALYSIS REPORT**

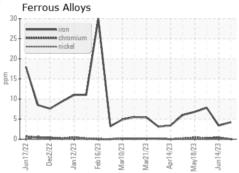


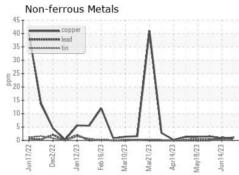


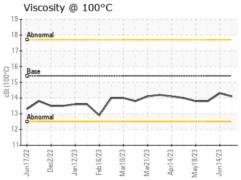
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

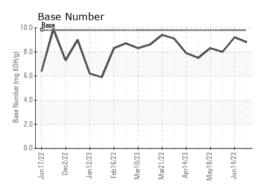
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.1	14.3	13.8

### **GRAPHS**













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10553016 Test Package : FLEET

: GFL0070605 : 05897206

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 13 Jul 2023 Diagnosed : 13 Jul 2023 Diagnostician : Wes Davis

GFL Environmental - 166 - Phenix City

18 Old Brickyard Rd Phenix City, AL US 36869

Contact: EDWARD CASHMAN

ecashman@gflenv.com

\* - 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: