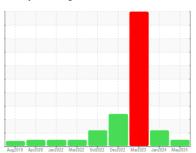


# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



Machine Id **729067-362008** 

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

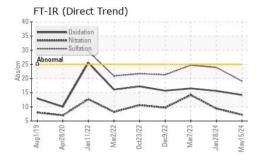
### **Fluid Condition**

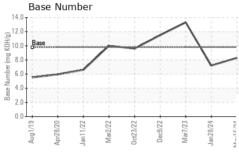
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

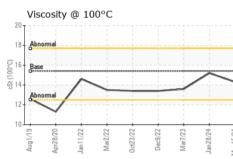
Augžotija Augžotija Augžotojo Sandorži Misroviž Ovezlorži Ovezlorži Misroviž Sandorži Misroviči.						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0103628	GFL0046103	GFL0039528
Sample Date		Client Info		15 May 2024	28 Jan 2024	07 Mar 2023
Machine Age	hrs	Client Info		0	450	450
Oil Age	hrs	Client Info		0	450	450
Oil Changed		Client Info		Not Changd	Changed	Changed
Sample Status				NORMAL	ATTENTION	SEVERE
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	▲ 0.10
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	28	36	15
Chromium	ppm	ASTM D5185m	>20	<1	1	<1
Nickel	ppm	ASTM D5185m	>4	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	2	3	2
Lead	ppm	ASTM D5185m	>40	<1	0	0
Copper	ppm	ASTM D5185m	>330	2	3	6
Tin	ppm	ASTM D5185m	>15	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	2	2	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	65	70	37
Manganese	ppm	ASTM D5185m	0	0	<1	1
Magnesium	ppm	ASTM D5185m	1010	941	979	198
Calcium	ppm	ASTM D5185m	1070	1159	1160	288
Phosphorus	ppm	ASTM D5185m	1150	1192	1107	240
Zinc	ppm	ASTM D5185m	1270	1272	1285	302
Sulfur	ppm	ASTM D5185m	2060	3420	2938	635
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	5	3
Sodium	ppm	ASTM D5185m		30	94	398
Potassium	ppm	ASTM D5185m	>20	12	36	△ 230
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	2.8	1.2
Nitration	Abs/cm	*ASTM D7624	>20	7.2	9.4	14.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.1	23.9	24.7
FLUID DEGRAI	NOITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.2	15.6	16.5
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.3	7.2	13.3



## **OIL ANALYSIS REPORT**



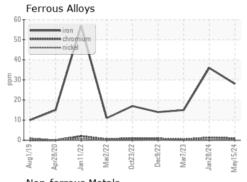


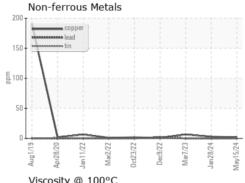


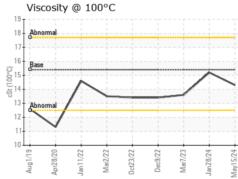
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

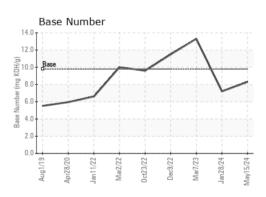
FLUID PROPI	ERIIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.3	15.2	13.6

### **GRAPHS**













Laboratory Sample No.

: GFL0103628 Lab Number : 06185889 Unique Number : 11042641

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Received : 21 May 2024 **Tested** : 22 May 2024 Diagnosed : 22 May 2024 - Wes Davis

GFL Environmental - 834 - Chillicothe Hauling 201 Mitchell Road Chillicothe, MO

US 64601 Contact: Terry McKiddy tmckiddy@gflenv.com T: (816)225-6699

Test Package : FLEET Certificate 12367 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)