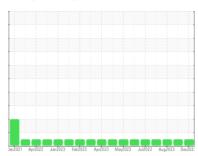


# **OIL ANALYSIS REPORT**

Sample Rating Trend







# Machine Id **811043**

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

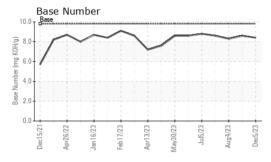
## **Fluid Condition**

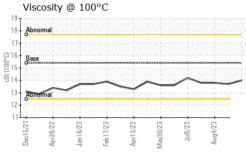
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

GAL)		Jec2021 Apr2	022 Jan2023 Feb2023	Apr2023 May2023 Jul2023 Aug	2023 Dec202:	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number Sample Date Machine Age Oil Age Oil Changed Sample Status	hrs hrs	Client Info Client Info Client Info Client Info Client Info		GFL0103027 05 Dec 2023 6237 73 Changed NORMAL	GFL0091011 25 Aug 2023 6164 0 Changed NORMAL	GFL0074745 04 Aug 2023 6005 6005 Changed NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel Water Glycol		WC Method WC Method	>5 >0.2	<1.0 NEG NEG	<1.0 NEG NEG	<1.0 NEG NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron Chromium Nickel Titanium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>100 >20 >4	18 <1 0	8 <1 0 0	7 <1 <1 <0
Silver Aluminum Lead Copper	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>3 >20 >40 >330	0 6 <1 <1	0 1 0 2	0 4 0 <1
Tin Vanadium Cadmium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>15	0 0 0	0 0 0	<1 <1 <1 0
ADDITIVES		method	limit/base	current	history1	history2
Boron Barium Molybdenum	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60	2 0 61	0 0 64	2 1 65
Manganese Magnesium Calcium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 1010 1070 1150	0 1029 1119 1141	<1 948 1023 1025	<1 936 1028 1010
Phosphorus Zinc Sulfur	ppm ppm ppm	ASTM D5185m ASTM D5185m	1270 2060	1284 3172	1261 3610	1230 3081
CONTAMINAN Silicon Sodium Potassium	ppm ppm	method  ASTM D5185m  ASTM D5185m  ASTM D5185m	limit/base >25 >20	current 6 2 9	history1 4 3 4	history2  5  6  5
INFRA-RED		method *ASTM D7844	limit/base	current	history1	history2
Soot % Nitration Sulfation	% Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415	>3 >20 >30	0.4 7.0 18.6	0.4 6.7 18.6	0.4 6.1 17.7
FLUID DEGRAD Oxidation Base Number (BN)	Abs/.1mm mg KOH/g	method *ASTM D7414 ASTM D2896	limit/base >25 9.8	current 14.2 8.4	history1 14.0 8.6	history2 13.3 8.3



# **OIL ANALYSIS REPORT**

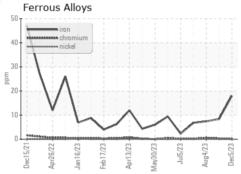


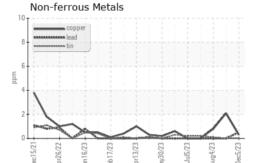


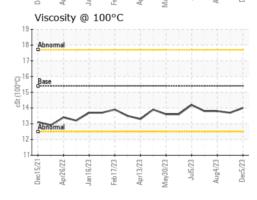
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

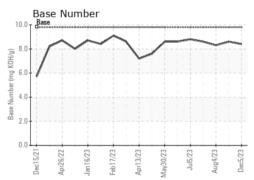
FLUID PROPE	RTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.0	13.7	13.8

## **GRAPHS**













Certificate L2367

Laboratory

Sample No. Lab Number Unique Number : 10790435 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0103027 : 06035206

Recieved : 14 Dec 2023 : 15 Dec 2023 Diagnosed Diagnostician : Wes Davis

GFL Environmental - 814 - Little Rock Hauling

4005 Hwy 161 N. Little Rock, AR US 72117

Contact: Brad Manager

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)

T:

F: