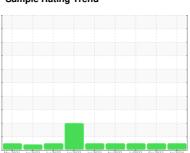


# **OIL ANALYSIS REPORT**

## Sample Rating Trend









923022-132582

Component

Diesel Engine

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

# 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

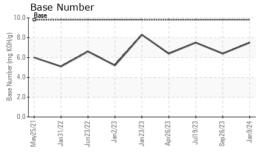
## **Fluid Condition**

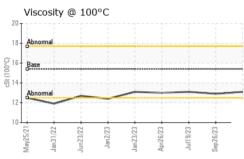
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0078639	GFL0078638	GFL0082084
Sample Date		Client Info		09 Jan 2024	26 Sep 2023	19 Jul 2023
Machine Age	hrs	Client Info		23577	23149	22642
Oil Age	hrs	Client Info		600	600	589
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ΓΙΟΝ	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	_S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	8	7	9
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	3	1	<1
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	2	2
Lead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm	ASTM D5185m	>330	2	1	<1
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	6	4	10
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	60	62	63
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	1010	906	959
Calcium	ppm	ASTM D5185m	1070	1090	1029	1206
Phosphorus	ppm	ASTM D5185m	1150	1016	933	998
Zinc	ppm	ASTM D5185m	1270	1291	1204	1261
Sulfur	ppm	ASTM D5185m	2060	3001	2730	3463
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	7	13
Sodium	ppm	ASTM D5185m		9	7	6
Potassium	ppm	ASTM D5185m	>20	<1	1	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.3	0.4	0.3
	Abs/cm	*ASTM D7624	>20	8.6	8.9	7.8
Nitration			~ 30	19.2	19.8	19.1
	Abs/.1mm	*ASTM D7415	>50			
			limit/base	current	history1	history2
Nitration Sulfation FLUID DEGRA Oxidation						history2 14.7



## **OIL ANALYSIS REPORT**

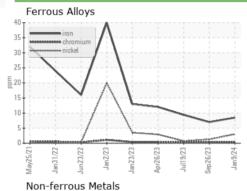


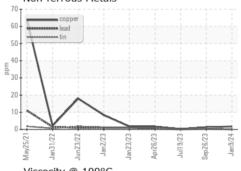


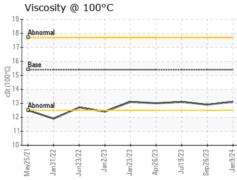
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

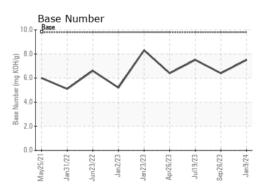
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.1	12.9	13.1

## **GRAPHS**













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10845610 Test Package : FLEET

: GFL0078639 : 06068933

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 23 Jan 2024

Diagnosed : 24 Jan 2024 Diagnostician : Wes Davis

GFL Environmental - 152 - Jacksonville

7580 PHILIPS HWY Jacksonville, FL US 32256

Contact: Robert White

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: (904)544-8795

F: