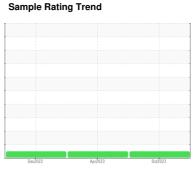


# **OIL ANALYSIS REPORT**

Sam



NORMAL



720053
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**

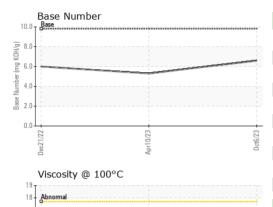
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

LTR)  Dector2 April023 Octo23						
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0084551	GFL0078770	GFL0071461
Sample Date		Client Info		06 Oct 2023	10 Apr 2023	21 Dec 2022
Machine Age	hrs	Client Info		11323	10184	0
Oil Age	hrs	Client Info		11323	0	0
Oil Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<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	>110	4	7	13
Chromium	ppm	ASTM D5185m	>4	<1	0	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	1	1	2
Lead	ppm	ASTM D5185m	>45	0	0	1
Copper	ppm	ASTM D5185m	>85	<1	<1	1
Tin	ppm	ASTM D5185m	>4	<1	0	<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	7	0	0
Barium	ppm	ASTM D5185m	0	0	2	0
Molybdenum	ppm	ASTM D5185m	60	58	53	59
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	889	840	925
Calcium	ppm	ASTM D5185m	1070	1023	912	1103
Phosphorus	ppm	ASTM D5185m	1150	981	850	929
Zinc	ppm	ASTM D5185m	1270	1140	1089	1239
Sulfur	ppm	ASTM D5185m	2060	2814	2845	3302
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	4	5	6
Sodium	ppm	ASTM D5185m		12	6	12
Potassium	ppm	ASTM D5185m	>20	<1	0	5
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.3	0.5
Nitration	Abs/cm	*ASTM D7624	>20	9.9	10.6	13.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.4	18.5	22.3
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Oxidation	A la a / 4 mana	*ACTM D7414	0.5		474	01.0
	Abs/.1mm	*ASTM D7414	>25	17.9	17.4	21.3
Base Number (BN)	mg KOH/g	ASTM D7414 ASTM D2896	9.8	17.9 6.6	5.3	6.0



13

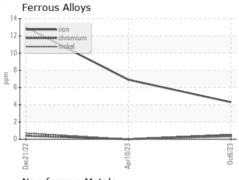
## **OIL ANALYSIS REPORT**

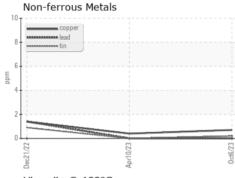


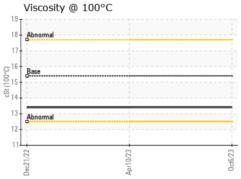
VISUAL		method				history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	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

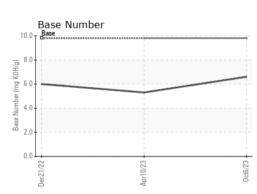
FLUID PROPI	ERHES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.4	13.4	13.4

## **GRAPHS**













Certificate L2367

Laboratory Sample No.

Lab Number Unique Number : 10696574 Test Package : FLEET

: GFL0084551 : 05979279

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 16 Oct 2023

Diagnosed Diagnostician : Wes Davis

: 16 Oct 2023

GFL Environmental - 918 - Hartland HC 630 E Industrial Drive

Hartland, WI US 53029

Contact: David McCall david.mccall@gflenv.com T: (262)369-3069

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)

Report Id: GFL918 [WUSCAR] 05979279 (Generated: 10/27/2023 06:14:33) Rev: 1