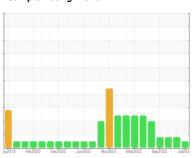


# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



Machine Id 12068 Component

**Diesel Engine** 

## PETRO CANADA DURON SHP 15W40 (32 QTS)

## 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

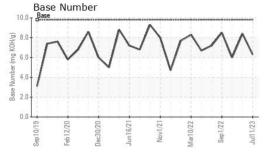
## **Fluid Condition**

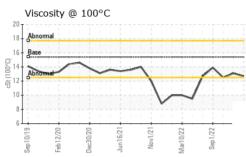
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

QTS)		3p 2019 Feb	2020 Dec2020 Jun20	Nov2021   Mar2022   Sep20	022 Jul202	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number Sample Date Machine Age	hrs	Client Info Client Info Client Info		GFL0071573 11 Jul 2023 9909	GFL0053168 23 Feb 2023 9909	GFL0061686 13 Jan 2023 9909
Oil Age Oil Changed Sample Status	hrs	Client Info Client Info		600 Changed NORMAL	600 Changed MARGINAL	600 Changed ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel Glycol		WC Method	>3.0	<1.0 NEG	▲ 4.7 NEG	▲ 5.9 NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron Chromium Nickel	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>75 >5 >4	28 <1 2	13 <1 0	26 <1 <1
Titanium Silver Aluminum Lead	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>2 >2 >15 >25	0 0 2 0	0 <1 1 <1	0 0 2 <1
Copper Tin Vanadium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>100	1 <1 0	<1 <1 <1	<1 0 0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m	0 0 60	5 <1 60	9 0 61	4 0 57
Manganese Magnesium Calcium Phosphorus	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 1010 1070 1150	<1 920 1120 977	<1 873 1124 974	<1 771 1063 889
Zinc Sulfur	ppm	ASTM D5185m ASTM D5185m	1270 2060	1267 3443	1267 3386	1098 2601
CONTAMINAN Silicon Sodium Potassium	ppm ppm	method  ASTM D5185m  ASTM D5185m  ASTM D5185m	limit/base >25 >20	9 13	history1 8 11 3	history2 9 21 3
INFRA-RED	la la , , ,	method	limit/base		history1	history2
Soot % Nitration Sulfation	% Abs/cm Abs/.1mm	*ASTM D7844 *ASTM D7624 *ASTM D7415	>6 >20 >30	0.6 12.9 23.3	0.9 9.1 21.5	0.5 12.1 23.2
FLUID DEGRAL Oxidation Base Number (BN)	Abs/.1mm mg KOH/g	*ASTM D7414 ASTM D2896	limit/base >25 9.8	23.1 6.3	history1 15.7 8.4	history2 22.5 6.0
= 1.00 · (DIV)	9		5.0		0	0.0



## **OIL ANALYSIS REPORT**

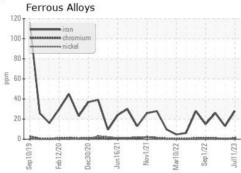


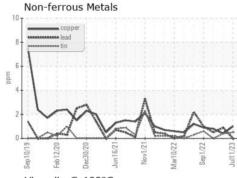


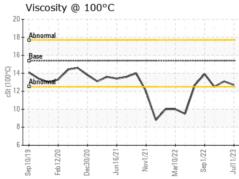
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

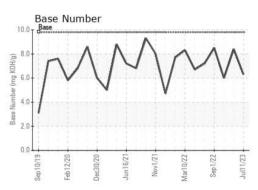
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	12.7	13.1	12.5	

## **GRAPHS**













Certificate L2367

Laboratory Sample No.

Lab Number

: GFL0071573 : 05905269 Unique Number : 10566625 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 24 Jul 2023 Diagnosed : 24 Jul 2023

Diagnostician : Wes Davis

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)

GFL Environmental - 035 - Greensboro

1236 Elon Place High Point, NC US 27263

Contact: JORGE COSTA jorge.costa@gflenv.com T: (336)668-3712