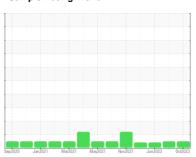


# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



Machine Id **529012-7026** 

Component

**Diesel Engine** 

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

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

#### Moor

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil

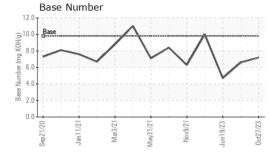
### **Fluid Condition**

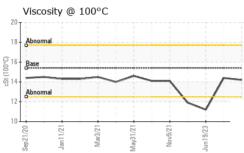
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

LIN)		Sep 2020	Jan 2021 Mar 2021	May2021 Nov2021 Jun2023	Oct2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0091792	GFL0086608	GFL0067922
Sample Date		Client Info		27 Oct 2023	06 Jul 2023	19 Jun 2023
Machine Age	hrs	Client Info		12490	0	11715
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	N/A	Not Changd
Sample Status				NORMAL	NORMAL	ATTENTION
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	0.7
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>110	21	30	22
Chromium	ppm	ASTM D5185m	>4	<1	<1	<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	2	7	4
Lead	ppm	ASTM D5185m	>45	0	0	<1
Copper	ppm	ASTM D5185m	>85	1	2	1
Tin	ppm	ASTM D5185m	>4	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	5	6	3
Barium	ppm	ASTM D5185m	0	20	0	0
Molybdenum	ppm	ASTM D5185m	60	58	66	60
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	851	1045	989
Calcium	ppm	ASTM D5185m	1070	911	1160	1102
Phosphorus	ppm	ASTM D5185m	1150	955	1115	1056
Zinc	ppm	ASTM D5185m	1270	1089	1394	1342
Sulfur	ppm	ASTM D5185m	2060	3568	3780	3528
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	5	7	7
Sodium	ppm	ASTM D5185m		4	2	2
Potassium	ppm	ASTM D5185m	>20	6	8	7
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.5	0.4
Nitration	Abs/cm	*ASTM D7624	>20	8.5	10.7	9.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.3	23.2	21.5
FLUID DEGRAI	NOITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.6	19.6	32.9
Base Number (BN)	mg KOH/g		9.8	7.2	6.6	4.7
Dago Hamber (DIA)	my Normy	AO I WI DEUJU	0.0		0.0	7.7



# **OIL ANALYSIS REPORT**

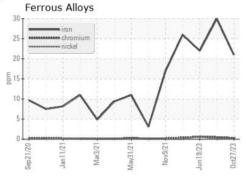


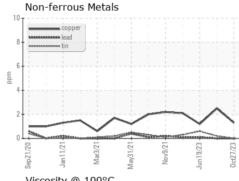


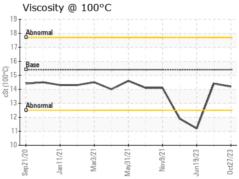
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

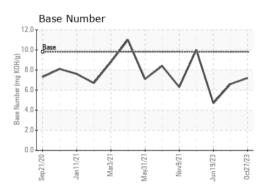
FLUID FROF	ENTIES	method			HISTOLAL	HISTORYZ
Visc @ 100°C	cSt	ASTM D445	15.4	14.2	14.4	<u> </u>

### **GRAPHS**













Certificate L2367

Test Package : FLEET

Laboratory Sample No. Lab Number Unique Number : 10722356

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0091792 : 05993996

Received : 31 Oct 2023 Diagnosed : 31 Oct 2023 Diagnostician : Wes Davis

GFL Environmental - 654 - Richmond Hauling

11800 Lewis Road Chester, VA US 23831 Contact: Jimmy Mayes

jmayes@gflenv.com

T:

\* - 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)

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Report Id: GFL654 [WUSCAR] 05993996 (Generated: 10/31/2023 15:51:06) Rev: 1

Submitted By: TECHNICIAN ACCOUNT

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