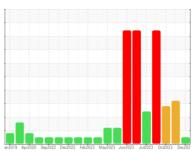


# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



726047-310048

Component

**Diesel Engine** 

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

## 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

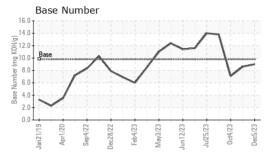
### **Fluid Condition**

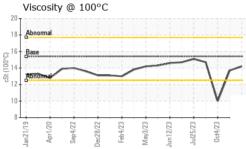
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFOR Sample Number Sample Date Machine Age Oil Age	RMATION		limit/base	current	history1	history2
Sample Date Machine Age					,	
Machine Age		Client Info		GFL0090315	GFL0090253	GFL0090158
•		Client Info		05 Dec 2023	25 Oct 2023	04 Oct 2023
Oil Age	hrs	Client Info		20180	19890	19767
	hrs	Client Info		150	150	150
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	ABNORMAL	SEVERE
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<u>2.2</u>	11.7
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	>110	<1	10	24
Chromium	ppm	ASTM D5185m	>4	0	<1	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	2	5
Lead	ppm	ASTM D5185m	>45	<1	0	<1
Copper	ppm	ASTM D5185m	>85	<1	<1	2
Tin	ppm	ASTM D5185m	>4	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	2	<1	8
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	58	77	51
Manganese	ppm		0	<1	0	<1
Magnesium	ppm	ASTM D5185m	1010	1008	860	786
Calcium	ppm	ASTM D5185m	1070	1088	964	866
Phosphorus	ppm	ASTM D5185m	1150	1088	928	878
Zinc	ppm	ASTM D5185m	1270	1306	1145	1043
Sulfur	ppm	ASTM D5185m	2060	3309	2693	2797
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	6	3	8
Sodium	ppm	ASTM D5185m		<1	▲ 306	37
Potassium	ppm	ASTM D5185m	>20	<1	<b>△</b> 69	6
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.4	0.8
Nitration	Abs/cm	*ASTM D7624	>20	4.3	7.9	7.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.3	19.0	19.4
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
	A1 //	*ASTM D7414	>25	12.9	14.7	15.0
Oxidation	Abs/.1mm	A51WID/414	>20	12.5	17.7	15.0



# **OIL ANALYSIS REPORT**

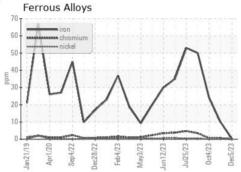


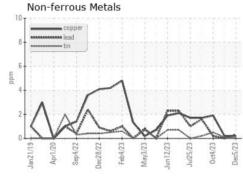


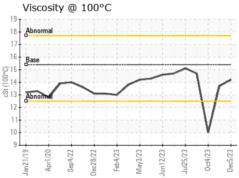
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

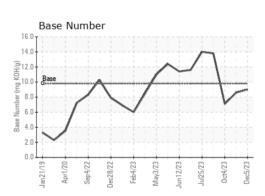
FLUID PROP	EHILO	method			riistory i	riistoryz
Visc @ 100°C	cSt	ASTM D445	15.4	14.2	13.7	10.0

### **GRAPHS**













Certificate L2367

Laboratory Sample No. Lab Number

Unique Number : 10777338 Test Package : FLEET

: GFL0090315 : 06027547

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 07 Dec 2023 Diagnosed : 08 Dec 2023 Diagnostician : Wes Davis

GFL Environmental - 821 - Ozarks Hauling

33924 Olath Drive Lebanon, MO US 65536 Contact: Landen Johnson

landen.johnson@gflenv.com T: (417)664-0010

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)