

#### **OIL ANALYSIS REPORT**

#### Sample Rating Trend

# NORMAL



Machine Id 913173 Component Diesel Engine Fluid

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

### 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

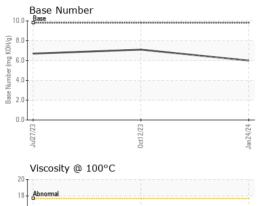
#### **Fluid Condition**

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 Sample Number Sample Date Machine Age Oil Age Oil Changed	MATION	Client Info	limit/base	current GFL0104564	history1 GFL0092630	history2 GFL0082538
Sample Date Machine Age Oil Age Oil Changed	hrs			GFL0104564	GFL0092630	GFL0082535
Machine Age Oil Age Oil Changed	hrs	Client Info				
Oil Age Oil Changed	hrs			24 Jan 2024	12 Oct 2023	27 Jul 2023
Oil Changed		Client Info		1890	1122	622
	hrs	Client Info		768	500	622
		Client Info		Changed	Not Changd	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	0.3
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	26	25	56
Chromium	ppm	ASTM D5185m	>20	1	<1	2
Nickel	ppm	ASTM D5185m	>5	7	8	9
Titanium	ppm	ASTM D5185m	>2	0	0	<1
Silver	ppm	ASTM D5185m	>2	<1	<1	<1
Aluminum	ppm	ASTM D5185m	>20	2	3	6
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	4	11	40
Tin	ppm	ASTM D5185m	>15	<1	<1	4
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	6	185
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	62	66	139
Manganese	ppm	ASTM D5185m	0	1	1	6
Magnesium	ppm	ASTM D5185m	1010	972	962	707
Calcium	ppm		1070	1054	1088	1631
Phosphorus	ppm	ASTM D5185m	1150	992	957	718
Zinc	ppm	ASTM D5185m	1270	1290	1230	888
Sulfur	ppm		2060	2618	2653	2733
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	11	<u></u> 103
Sodium	ppm	ASTM D5185m		3	5	4
Potassium	ppm	ASTM D5185m	>20	2	9	11
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	8.0	0.6	0.7
Nitration	Abs/cm	*ASTM D7624	>20	10.3	9.0	11.3
0 16 11	Abs/.1mm	*ASTM D7415	>30	21.5	20.0	25.5
Sulfation						
Sulfation FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Sulfation  FLUID DEGRA  Oxidation	DATION Abs/.1mm	*ASTM D7414	limit/base >25	current 18.0	history1 16.6	history2 25.0



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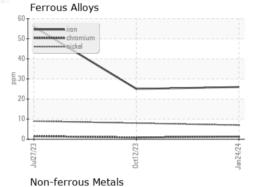


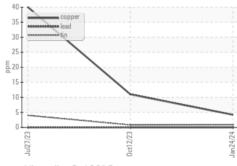
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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
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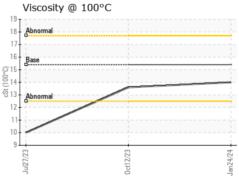
FLUID PROPE	RHES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.0	13.6	▲ 10.0

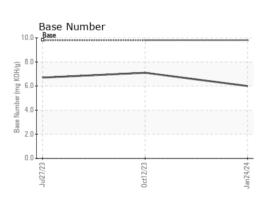
## Oct12/23

#### **GRAPHS**













Certificate L2367

Laboratory Sample No. Lab Number

Unique Number : 10856540 Test Package : FLEET

: GFL0104564 : 06074449

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 30 Jan 2024 Diagnosed : 31 Jan 2024

Diagnostician : Wes Davis

GFL Environmental - 947 - WB Horicon HC N7296 County Rd V

Horicon, WI US 53032 Contact: Tim Kieffer tim.kieffer@gflenv.com T: (608)219-0288

\* - 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)