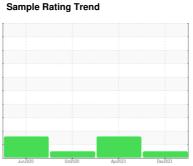


# **OIL ANALYSIS REPORT**



NORMAL



Machine Id **228071-603241** 

Component

**Diesel Engine** 

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.

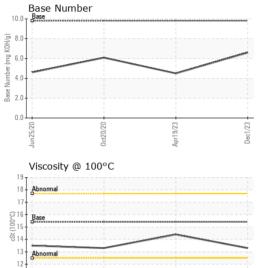
### **Fluid Condition**

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

GAL)		Jun 202	0 Oct2020	Apr2023 D	oc2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number Sample Date Machine Age Oil Age Oil Changed Sample Status	mls mls	Client Info Client Info Client Info Client Info Client Info		GFL0087074 01 Dec 2023 0 5000 Changed NORMAL	GFL0080004 19 Apr 2023 0 450 Changed ABNORMAL	GFLI-700511 20 Oct 2020 29758 2516 Changed NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel Water Glycol		WC Method WC Method		<1.0 NEG NEG	<1.0 NEG NEG	1.7 NEG NEG
WEAR METAL	_S	method	limit/base	current	history1	history2
Iron Chromium Nickel Titanium Silver Aluminum Lead Copper Tin Antimony Vanadium Cadmium	ppm	ASTM D5185m	>2 >25 >40	68 2 1 <1 0 8 28 16 4  <1	141 4 2 0 0 19 65 25 7  0	17 0 1 0 0 9 0 1 1 1 2 0
ADDITIVES		method	limit/base	current	history1	history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	60 0 1010 1070 1150 1270	4 0 46 1 837 1164 988 1204 2623	23 0 3 2 888 1631 1201 1503 4472	333 0 146 0 704 1681 802 953  5
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon Sodium Potassium	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		7 1 3	12 4 5	10 1 0
INFRA-RED		method	limit/base	current	history1	history2
Soot % Nitration Sulfation	% Abs/cm Abs/.1mm	*ASTM D7844 *ASTM D7624 *ASTM D7415		0.2 10.0 20.8	0.3 11.4 27.2	0.1 8 

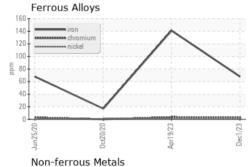


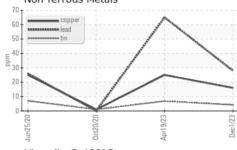
# **OIL ANALYSIS REPORT**

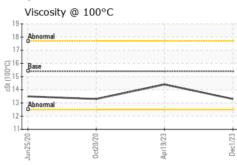


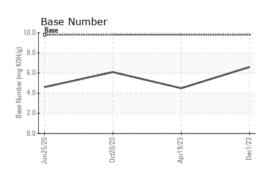
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.6	22.3	14
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.6	4.5	6.09
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.3	14.4	13.3

#### **GRAPHS**













Certificate L2367

Laboratory Sample No. Lab Number

Unique Number : 10775820

: GFL0087074 : 06026029 Test Package : FLEET

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 06 Dec 2023 Diagnosed : 07 Dec 2023 Diagnostician : Wes Davis

GFL Environmental - 846 - Mayfield Hauling 3426 State Route 45

Mayfield, KY US 42066 Contact: Jack Lindsey jack.lindsey@gflenv.com T: (270)970-3690

\* - 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)