

# **OIL ANALYSIS REPORT**

Sample Rating Trend

NORMAL



Machine Id MC 14
Component

**Diesel Engine** 

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

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

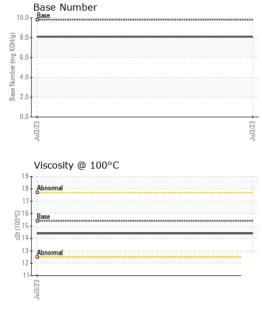
#### **Fluid Condition**

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

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SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0067711			
Sample Date		Client Info		03 Jul 2023			
Machine Age	mls	Client Info		238114			
Dil Age	mls	Client Info		0			
Oil Changed		Client Info		Changed			
Sample Status				NORMAL			
CONTAMINAT	ION	method	limit/base	current	history1	history2	
-uel		WC Method	>5	<1.0			
Glycol		WC Method		NEG			
WEAR METAL	S	method	limit/base	current	history1	history2	
ron	ppm	ASTM D5185m	>100	36			
Chromium	ppm	ASTM D5185m	>20	1			
Nickel	ppm	ASTM D5185m	>4	<1			
Titanium	ppm	ASTM D5185m		0			
Silver	ppm	ASTM D5185m	>3	<1			
Aluminum	ppm	ASTM D5185m	>20	2			
ead	ppm	ASTM D5185m	>40	<1			
Copper	ppm	ASTM D5185m	>330	1			
- īn	ppm	ASTM D5185m	>15	<1			
/anadium	ppm	ASTM D5185m		0			
Cadmium	ppm	ASTM D5185m		0			
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	1			
Barium	ppm	ASTM D5185m	0	0			
Molybdenum	ppm	ASTM D5185m	60	63			
Manganese	ppm	ASTM D5185m	0	<1			
/lagnesium	ppm	ASTM D5185m	1010	922			
Calcium	ppm	ASTM D5185m	1070	1141			
Phosphorus	ppm	ASTM D5185m	1150	1042			
Zinc	ppm	ASTM D5185m	1270	1264			
Sulfur	ppm	ASTM D5185m	2060	2977			
CONTAMINAN	ITS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	7			
Sodium	ppm	ASTM D5185m	00	16			
Potassium	ppm	ASTM D5185m	>20	5			
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.3			
Nitration	Abs/cm	*ASTM D7624	>20	9.7			
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.3			
FLUID DEGRA	DATION	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.0			
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.1			



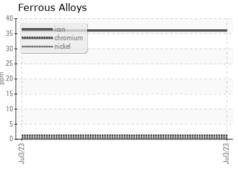
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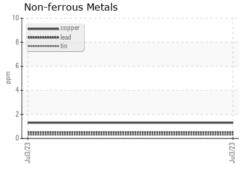


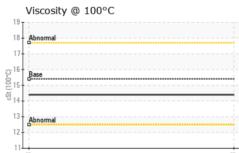
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Precipitate	scalar	*Visual	NONE	NONE		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG		
Free Water	scalar	*Visual		NEG		
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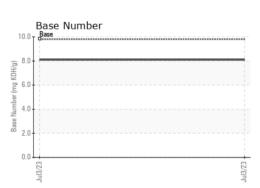
LLUID LUOP		memod			HISTOLAL	HISTORYZ
Visc @ 100°C	cSt	ASTM D445	15.4	14.4		

### **GRAPHS**











Certificate L2367

Laboratory Sample No. Lab Number

Unique Number : 10591999

: GFL0067711 : 05920085 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 09 Aug 2023 Diagnosed : 10 Aug 2023

Diagnostician : Wes Davis

GFL Environmental - 820 - Joplin Hauling

3700 West 7th Street

Joplin, MO US 64801

Contact: TECHNICIAN ACCOUNT

wcgfldemo@gmail.com T:

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)

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