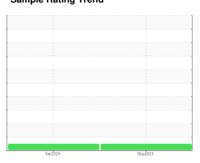


# **OIL ANALYSIS REPORT**

Sample Rating Trend







Machine Id 929123 Diesel Engine

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

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the

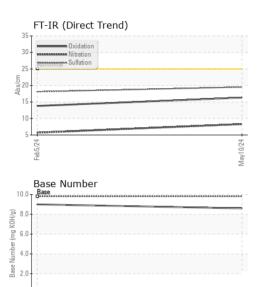
### **Fluid Condition**

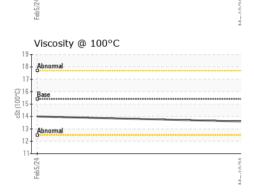
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

GAL)			Feb 2024	May2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0111921	GFL0082374	
Sample Date		Client Info		10 May 2024	05 Feb 2024	
Machine Age	hrs	Client Info		13814	13280	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		Changed	Not Changd	
Sample Status				NORMAL	NORMAL	
CONTAMINATI	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	17	3	
Chromium	ppm	ASTM D5185m	>20	2	<1	
Nickel	ppm	ASTM D5185m	>4	0	0	
Titanium	ppm	ASTM D5185m		0	<1	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>20	2	<1	
Lead	ppm	ASTM D5185m	>40	0	0	
Copper	ppm	ASTM D5185m	>330	2	<1	
Tin	ppm	ASTM D5185m	>15	0	<1	
Vanadium	ppm	ASTM D5185m		0	<1	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	13	36	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	63	60	
Manganese	ppm	ASTM D5185m		<1	<1	
Magnesium	ppm	ASTM D5185m	1010	916	855	
Calcium	ppm	ASTM D5185m	1070	1112	988	
Phosphorus	ppm	ASTM D5185m	1150	1037	953	
Zinc	ppm	ASTM D5185m	1270	1227	1126	
Sulfur	ppm	ASTM D5185m	2060	3479	2915	
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	2	3	
Sodium	ppm	ASTM D5185m	00	12	6	
Potassium	ppm	ASTM D5185m	>20	8	2	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.2	
Nitration	Abs/cm	*ASTM D7624	>20	8.3	5.7	
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.5	18.1	
FLUID DEGRAD	OITA	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.3	13.8	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.6	9.0	



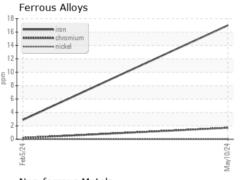
## **OIL ANALYSIS REPORT**

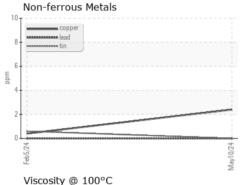


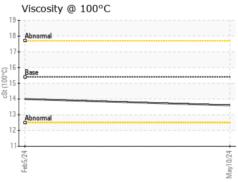


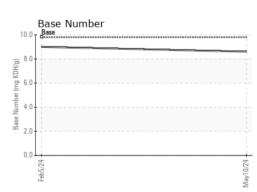
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	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 PROPI	ERITES	method	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.4	13.6	14.0	













Certificate 12367

Laboratory Sample No.

Lab Number : 06197240 Unique Number : 11059363

: GFL0111921

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 03 Jun 2024 **Tested** : 03 Jun 2024

Diagnosed : 03 Jun 2024 - Wes Davis

GFL Environmental - 959F - Clinton HC 9550 Heritage Rd

Clinton, IL US 61727

Contact: Larry Siegmann lsiegmann@gflenv.com

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)

Report Id: GFL959F [WUSCAR] 06197240 (Generated: 06/03/2024 19:02:04) Rev: 1

Contact/Location: Also GFL959,959C,959D - Larry Siegmann - GFL959F

T:

F: