

# **OIL ANALYSIS REPORT**

### Sample Rating Trend





Machine Id **926055-1454** Component

**Diesel Engine** 

PETRO CANADA DURO

# 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

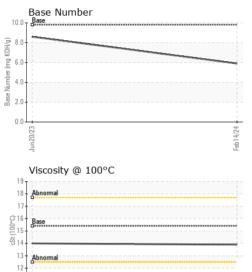
### **Fluid Condition**

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

N SHP 15W40 (-	GAL)		Jun 2023	Feb2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0103540	GFL0085359	
Sample Date		Client Info		14 Feb 2024	20 Jun 2023	
Machine Age	hrs	Client Info		15726	14565	
Oil Age	hrs	Client Info		15726	197	
Oil Changed		Client Info		N/A	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	20	3	
Chromium	ppm	ASTM D5185m	>20	<1	<1	
Nickel	ppm	ASTM D5185m	>5	5	0	
Titanium	ppm	ASTM D5185m	>2	0	<1	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>20	3	0	
Lead	ppm	ASTM D5185m	>40	1	<1	
Copper	ppm	ASTM D5185m	>330	6	<1	
Tin	ppm	ASTM D5185m	>15	1	<1	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	3	2	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	59	58	
Manganese	ppm	ASTM D5185m	0	<1	0	
Magnesium	ppm	ASTM D5185m	1010	926	927	
Calcium	ppm	ASTM D5185m	1070	1007	1040	
Phosphorus	ppm	ASTM D5185m	1150	969	975	
Zinc	ppm	ASTM D5185m	1270	1228	1199	
Sulfur	ppm	ASTM D5185m	2060	2481	3302	
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	8	3	
Sodium	ppm	ASTM D5185m		12	4	
Potassium	ppm	ASTM D5185m	>20	1	<1	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.5	0.2	
Nitration	Abs/cm	*ASTM D7624	>20	9.9	6.9	
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.0	20.2	
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.9	16.7	



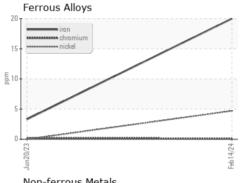
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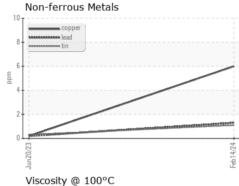


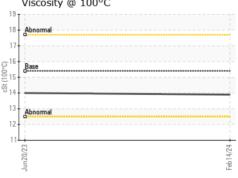
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance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

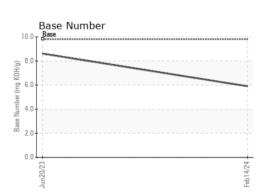
LLOID FUOF	EULIES	memod			HISTORY	HISTOLYZ
Visc @ 100°C	cSt	ASTM D445	15.4	13.9	14.0	

### **GRAPHS**











Certificate L2367

Laboratory Sample No.

Test Package : FLEET

: GFL0103540 Lab Number : 06096107 Unique Number : 10888960

Received **Tested** Diagnosed

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 21 Feb 2024 : 22 Feb 2024

: 22 Feb 2024 - Wes Davis

GFL Environmental - 958A - Chillicothe Wigand

19908 N. State Rd 29 Chillicothe, IL US 61523

Contact: Bryan Link blink@gflenv.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)

Report Id: GFL958A [WUSCAR] 06096107 (Generated: 02/22/2024 15:42:47) Rev: 1

Submitted By: DREW MOOBERRY

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