

Sample Rating Trend

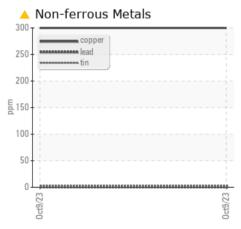


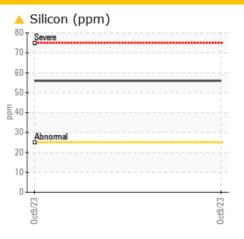
### Machine Id 914030

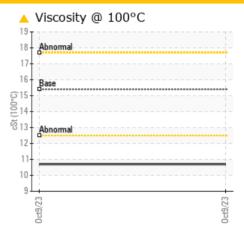
Component Diesel Engine

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

### COMPONENT CONDITION SUMMARY







### RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS								
Sample Status				ABNORMAL				
Copper	ppm	ASTM D5185m	>330	<u> </u>				
Silicon	ppm	ASTM D5185m	>25	<u> </u>				
Visc @ 100°C	cSt	ASTM D445	15.4	<b>10.7</b>				

Customer Id: GFL891 Sample No.: GFL0077237 Lab Number: 05973890 Test Package: FLEET



To manage this report scan the QR code

*To discuss the diagnosis or test data:* Don Baldridge +1 <u>don.b505@comcast.net</u>

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description			
Change Fluid			?	Oil and filter change at the time of sampling has been noted.			
Change Filter			?	Oil and filter change at the time of sampling has been noted.			

## HISTORICAL DIAGNOSIS



## **OIL ANALYSIS REPORT**

Sample Rating Trend

DIRT

# Machine Id 914030

Component Diesel Engine

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

### DIAGNOSIS

#### Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

### 🔺 Wear

The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other metal levels are typical for a new component breaking in.

### Contamination

Fuel content negligible. Elemental level of silicon (Si) above normal indicating ingress of seal material.

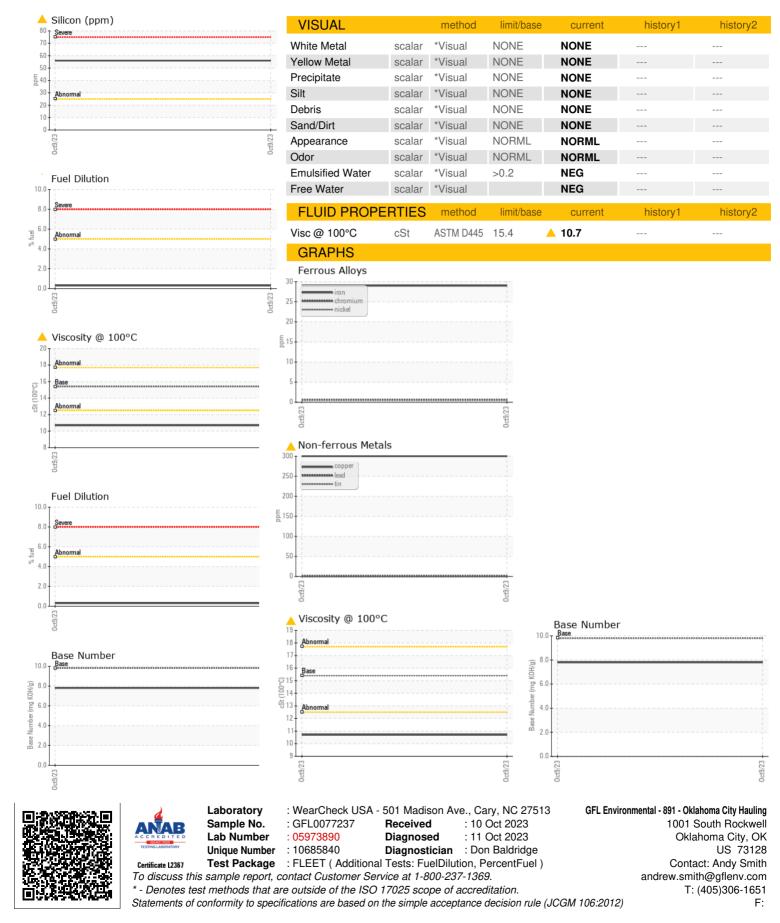
### Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

SAMPLE INFORM		method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0077237		
Sample Date		Client Info		09 Oct 2023		
Machine Age	hrs	Client Info		615		
Oil Age	hrs	Client Info		615		
Oil Changed	1110	Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINATI	ON	method	limit/base	current	history1	history2
Glycol		WC Method		NEG		
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	29		
Chromium	ppm	ASTM D5185m	>20	<1		
Nickel	ppm	ASTM D5185m	>4	<1		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>3	<1		
Aluminum	ppm	ASTM D5185m	>20	0		
Lead	ppm	ASTM D5185m	>40	<1		
Copper	ppm	ASTM D5185m	>330	<u> </u>		
Tin	ppm	ASTM D5185m	>15	2		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	173		
Barium	ppm	ASTM D5185m	0	1		
Molybdenum	ppm	ASTM D5185m	60	116		
Manganese	ppm	ASTM D5185m	0	4		
Magnesium	ppm	ASTM D5185m	1010	725		
Calcium	ppm	ASTM D5185m	1070	1306		
Phosphorus	ppm	ASTM D5185m	1150	737		
Zinc	ppm	ASTM D5185m	1270	918		
Sulfur	ppm	ASTM D5185m	2060	2657		
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>6</b>		
Sodium	ppm	ASTM D5185m		0		
Potassium	ppm	ASTM D5185m	>20	6		
Fuel	%	ASTM D3524	>5	0.3		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4		
Nitration	Abs/cm	*ASTM D7624	>20	8.5		
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.7		
FLUID DEGRAD		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.0		
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.8		
	0 - 0					



# **OIL ANALYSIS REPORT**



Contact/Location: Andy Smith - GFL891