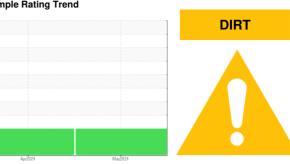


# **OIL ANALYSIS REPORT**







Machine Id 814011 Component

Diesel Engine

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

### **DIAGNOSIS**

### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

Elemental level of silicon (Si) above normal indicating ingress of dirt/seal material.

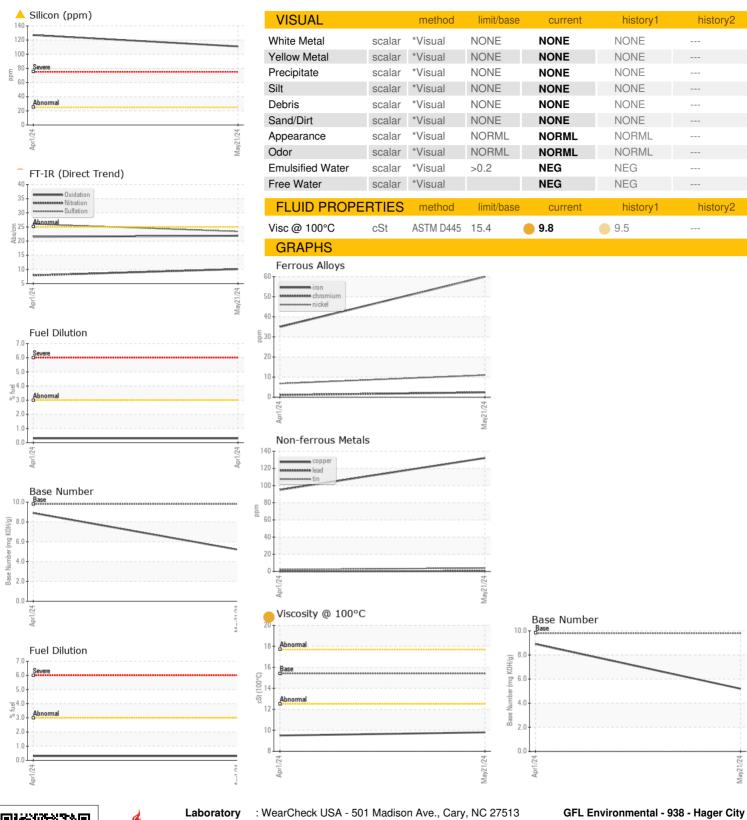
### Fluid Condition

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

N SHP 15W40 (	- GAL)		Apr2024	May2024		
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0120374	GFL06136027	
Sample Date		Client Info		21 May 2024	01 Apr 2024	
Machine Age	hrs	Client Info		0	0	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				ABNORMAL	ABNORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>90	60	35	
Chromium	ppm	ASTM D5185m	>20	2	1	
Nickel	ppm	ASTM D5185m	>2	11	7	
Γitanium	ppm	ASTM D5185m	>2	<1	0	
Silver	ppm	ASTM D5185m	>2	<1	1	
Aluminum	ppm	ASTM D5185m	>20	6	6	
_ead	ppm	ASTM D5185m	>40	<1	0	
Copper	ppm	ASTM D5185m	>330	132	95	
Γin	ppm	ASTM D5185m	>15	4	2	
/anadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		<1	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	243	409	
Barium	ppm	ASTM D5185m	0	<1	0	
Molybdenum	ppm	ASTM D5185m	60	130	125	
Manganese	ppm	ASTM D5185m	0	5	4	
Magnesium	ppm	ASTM D5185m	1010	660	676	
Calcium	ppm	ASTM D5185m	1070	1385	1425	
Phosphorus	ppm	ASTM D5185m	1150	676	694	
Zinc	ppm	ASTM D5185m	1270	798	789	
Sulfur	ppm	ASTM D5185m	2060	2300	2585	
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<u> </u>	<u>▲</u> 127	
Sodium	ppm	ASTM D5185m		1	2	
Potassium	ppm	ASTM D5185m	>20	10	5	
Fuel	%	ASTM D3524	>3.0	<1.0	0.3	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.6	0.3	
Nitration	Abs/cm	*ASTM D7624	>20	10.1	7.9	
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.4	26.0	
FLUID DEGRA	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.9	21.5	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	5.2	8.9	



## **OIL ANALYSIS REPORT**





Certificate 12367

Sample No.

: GFL0120374 Lab Number : 06197434 Unique Number: 11059557

Received : 03 Jun 2024 **Tested** Diagnosed

: 04 Jun 2024 : 04 Jun 2024 - Don Baldridge

W9724 WIS-35 HAGER CITY, WI US 54014 Contact: ANDY KANE

Test Package : FLEET ( Additional Tests: FuelDilution ) 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) T: (715)202-3420

Contact/Location: See also GFL904,A,B,C, 927, 938 - ANDY KANE - GFL938

F: