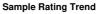


# **OIL ANALYSIS REPORT**



DIRT

## Machine Id 414046

Component Diesel Engine

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

### DIAGNOSIS

#### A Recommendation

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).

#### Contamination

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

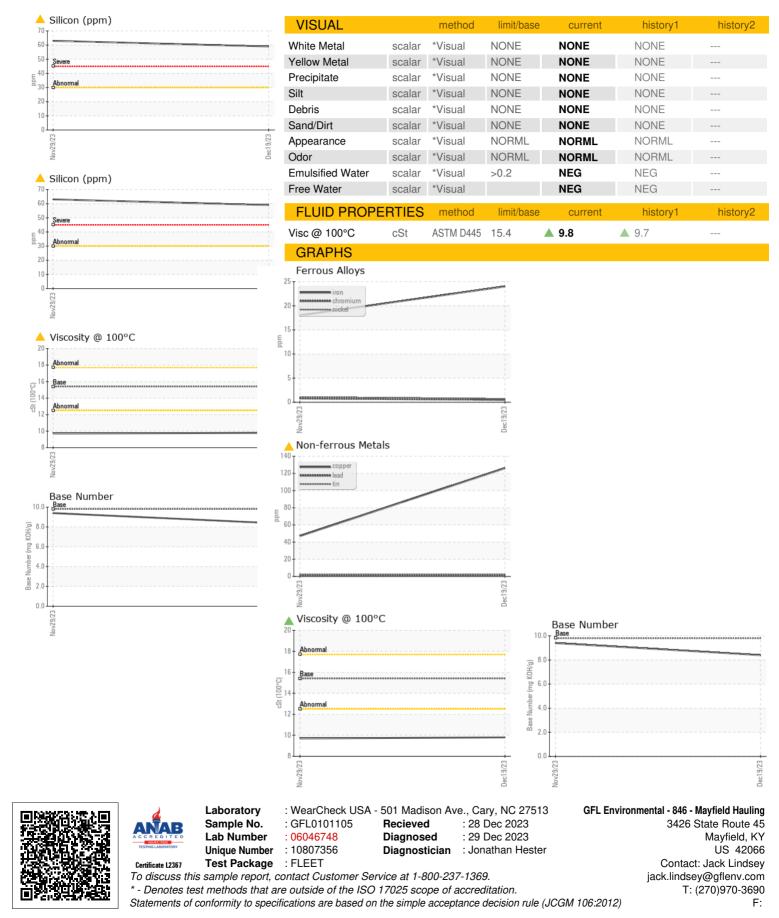
#### Fluid Condition

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

AL)			Nov2023	Dec2023		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0101105	GFL0087073	
Sample Date		Client Info		19 Dec 2023	29 Nov 2023	
Iachine Age	hrs	Client Info		0	0	
Dil Age	hrs	Client Info		0	0	
Dil Changed		Client Info		Not Changd	Not Changd	
Sample Status				ABNORMAL	ABNORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
uel		WC Method	>5	<1.0	0.0	
Vater		WC Method	>0.2	NEG	NEG	
alycol		WC Method		NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>110	24	18	
Chromium	ppm	ASTM D5185m	>4	<1	<1	
lickel	ppm	ASTM D5185m	>2	<1	1	
ītanium	ppm	ASTM D5185m		0	<1	
Silver	ppm	ASTM D5185m	>2	<1	<1	
Aluminum	ppm	ASTM D5185m	>25	11	8	
ead	ppm	ASTM D5185m	>45	<1	<1	
Copper	ppm	ASTM D5185m	>85	<u> </u>	47	
īn	ppm	ASTM D5185m	>4	2	2	
/anadium	ppm	ASTM D5185m		0	<1	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	302	372	
Barium	ppm	ASTM D5185m	0	0	0	
/lolybdenum	ppm	ASTM D5185m	60	131	118	
langanese	ppm	ASTM D5185m	0	3	4	
/lagnesium	ppm	ASTM D5185m	1010	682	662	
Calcium	ppm	ASTM D5185m	1070	1514	1398	
Phosphorus	ppm	ASTM D5185m	1150	689	691	
Zinc	ppm	ASTM D5185m	1270	787	812	
Sulfur	ppm	ASTM D5185m	2060	2311	2152	
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	<u> </u>	<b>6</b> 3	
Sodium	ppm	ASTM D5185m		2	3	
Potassium	ppm	ASTM D5185m	>20	20	14	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.1	
5001 %		*ASTM D7624	>20	8.6	6.8	
Nitration	Abs/cm	AO INI DI OLA				
	Abs/cm Abs/.1mm	*ASTM D7624	>30	25.6	26.0	
Nitration	Abs/.1mm	*ASTM D7415	>30 limit/base	25.6 current	26.0 history1	 history2
Vitration Sulfation	Abs/.1mm	*ASTM D7415				



# **OIL ANALYSIS REPORT**



Contact/Location: Jack Lindsey - GFL846