

## **OIL ANALYSIS REPORT**

#### Sample Rating Trend

### NORMAL

#### Machine Id 529137-SW7946 FREIGHTLINER CASCADIA 125 Component

Diesel Engine

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

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

#### Fluid Condition

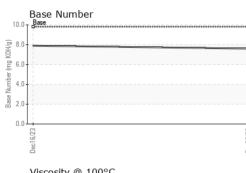
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

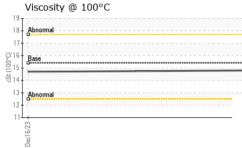
GAL)			Dec2023	Dec2023		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0066605	GFL0066602	
Sample Date		Client Info		30 Dec 2023	16 Dec 2023	
Machine Age	mls	Client Info		0	0	
Oil Age	mls	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				NORMAL	ABNORMAL	
CONTAMINAT	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 METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	7	8	
Chromium	ppm	ASTM D5185m	>5	<1	<1	
Nickel	ppm	ASTM D5185m	>2	<1	0	
Titanium	ppm	ASTM D5185m		<1	<1	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>30	2	7	
Lead	ppm	ASTM D5185m	>30	<1	0	
Copper	ppm	ASTM D5185m	>150	21	13	
Tin	ppm	ASTM D5185m	>5	<1	1	
Vanadium	ppm	ASTM D5185m		0	<1	
Cadmium	ppm	ASTM D5185m		<1	<1	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	
Barium	ppm	ASTM D5185m	0	8	0	
Molybdenum	ppm	ASTM D5185m	60	55	52	
Manganese	ppm	ASTM D5185m	0	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	15	19	
Calcium	ppm	ASTM D5185m	1070	2510	2397	
Phosphorus	ppm	ASTM D5185m	1150	992	1110	
Zinc	ppm	ASTM D5185m	1270	1219	1306	
Sulfur	ppm	ASTM D5185m	2060	3326	3397	
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	7	21	
Sodium	ppm	ASTM D5185m		0	2	
Potassium	ppm	ASTM D5185m	>20	4	6	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.1	
Nitration	Abs/cm	*ASTM D7624	>20	5.5	5.0	
Sulfation	Abs/.1mm	*ASTM D7415	>30	15.5	14.7	
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	8.7	8.1	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.6	7.9	

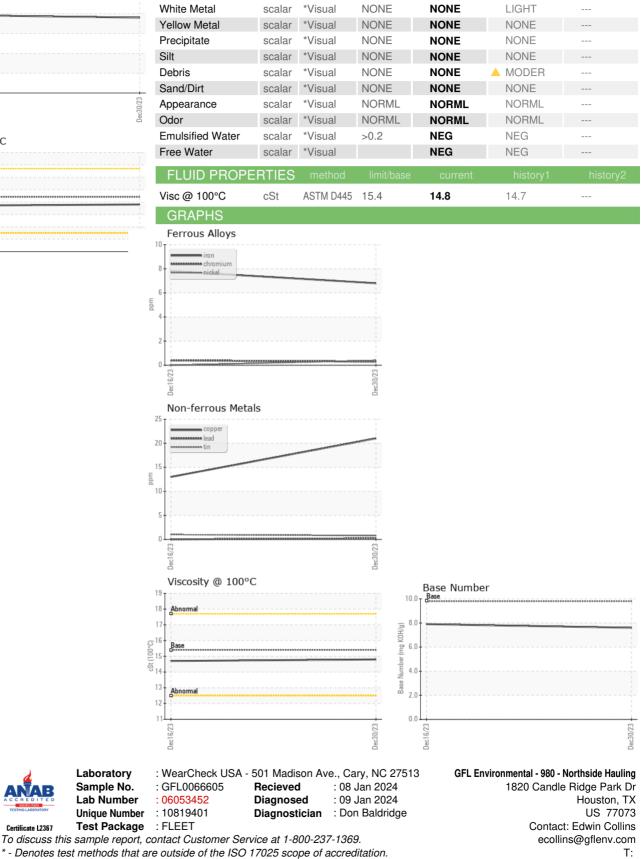


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VISUAL







Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Certificate L2367

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