

OIL ANALYSIS REPORT

Sample Rating Trend

GLYCOL

X



Area [1224412] Machine Id 101011 Component

Diesel Engine

Fluid

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

				Feb 2024		
SAMPLE INFOR	RMATION	method	limit/base	current	history1	histor
Sample Number		Client Info		GFL0107932		
Sample Date		Client Info		09 Feb 2024		
Machine Age	hrs	Client Info		24943		
Oil Age	hrs	Client Info		40		
Oil Changed		Client Info		N/A		
Sample Status				SEVERE		
CONTAMINA	TION	method	limit/base	current	history1	histor
Water		WC Method	>0.2	NEG		
WEAR META	LS	method	limit/base	current	history1	histor
Iron	ppm	ASTM D5185(m)	>120	7		
Chromium	ppm	ASTM D5185(m)	>20	0		
Nickel	ppm	ASTM D5185(m)	>5	<1		
Titanium	ppm	ASTM D5185(m)	>2	0		
Silver	ppm	ASTM D5185(m)	>2	0		
Aluminum	ppm	ASTM D5185(m)	>20	2		
Lead	ppm	ASTM D5185(m)	>40	1		
Copper	ppm	ASTM D5185(m)	>330	15		
Tin	ppm	ASTM D5185(m)	>15	<1		
Antimony	ppm	ASTM D5185(m)		0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	histor
Boron	ppm	ASTM D5185(m)	0	4		
Barium	ppm	ASTM D5185(m)	0	0		
Molybdenum	ppm	ASTM D5185(m)	60	69		
Manganese	ppm	ASTM D5185(m)	0	0		
Magnesium	ppm	ASTM D5185(m)	1010	836		
Calcium	ppm	ASTM D5185(m)	1070	951		
Phosphorus	ppm	ASTM D5185(m)	1150	980		
Zinc	ppm	ASTM D5185(m)	1270	1070		
Sulfur	ppm	ASTM D5185(m)	2060	2629		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINA	NTS	method	limit/base	current	history1	histor
Silicon	ppm	ASTM D5185(m)	>25	25		
Sodium	ppm	ASTM D5185(m)		🔺 167		
Potassium	ppm	ASTM D5185(m)	>20	194		
Fuel	%	ASTM D7593*	>3.0	0.6		
Glycol	%	ASTM D7922*		0.154		
INFRA-RED		method	limit/base	current	history1	histor
Soot %	%	ASTM D7844*	>4	0		
Nitration	Abs/cm	ASTM D7624*	>20	6.2		
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.7		

DIAGNOSIS Recommendation

We advise that you check for the source of the coolant leak. We recommend that you drain the oil from the component if this has not already been done. We advise that you flush the component thoroughly before re-filling with oil. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

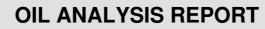
Contamination

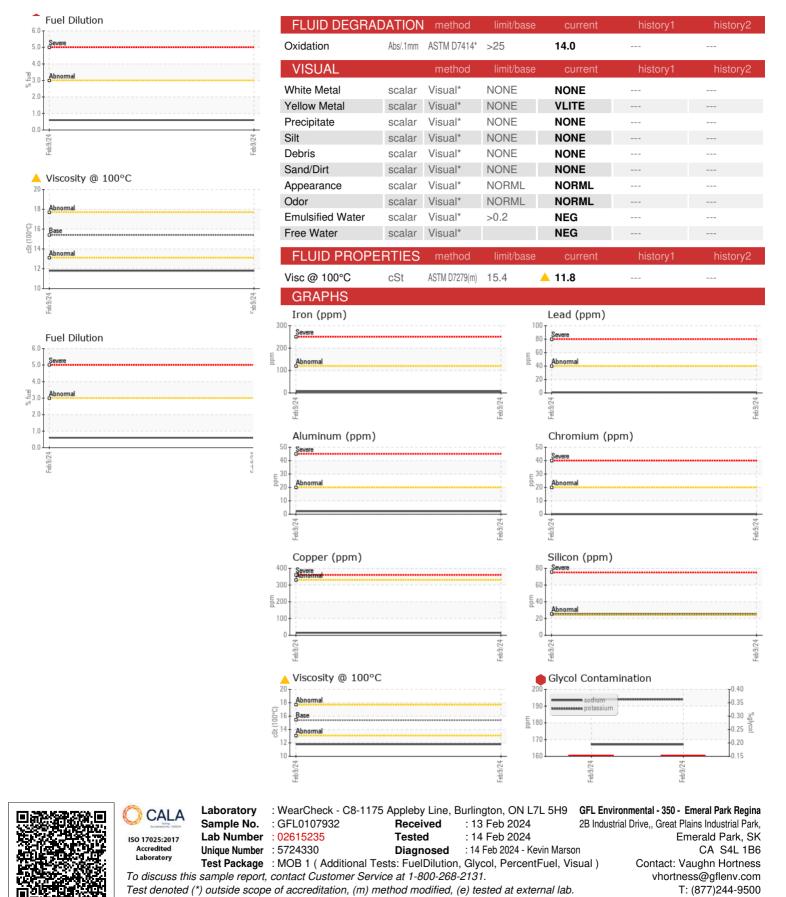
Fuel content negligible. Test for glycol is positive. There is a high concentration of glycol present in the oil.

Fluid Condition

Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The oil is no longer serviceable due to the presence of contaminants.







Validity of results and interpretation are based on the sample and information as supplied.

Report Id: GFL350 [WCAMIS] 02615235 (Generated: 02/14/2024 13:56:56) Rev: 1

Contact/Location: Vaughn Hortness - GFL350

F: (306)244-9501