

# **OIL ANALYSIS REPORT**

Sample Rating Trend

GLYCOL

## Area [154946] Machine Id 676 ENG 2

Component Diesel Engine Fluid DIESEL ENGINE OIL SAE 15W40 (--- GAL)

#### 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

Test for glycol is positive. There is a light concentration of glycol present in the oil.

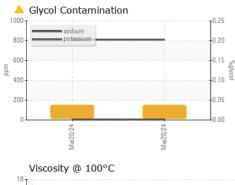
# Fluid Condition

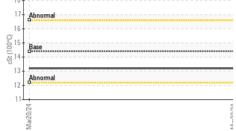
The condition of the oil is acceptable for the time in service. The oil is no longer serviceable due to the presence of contaminants.

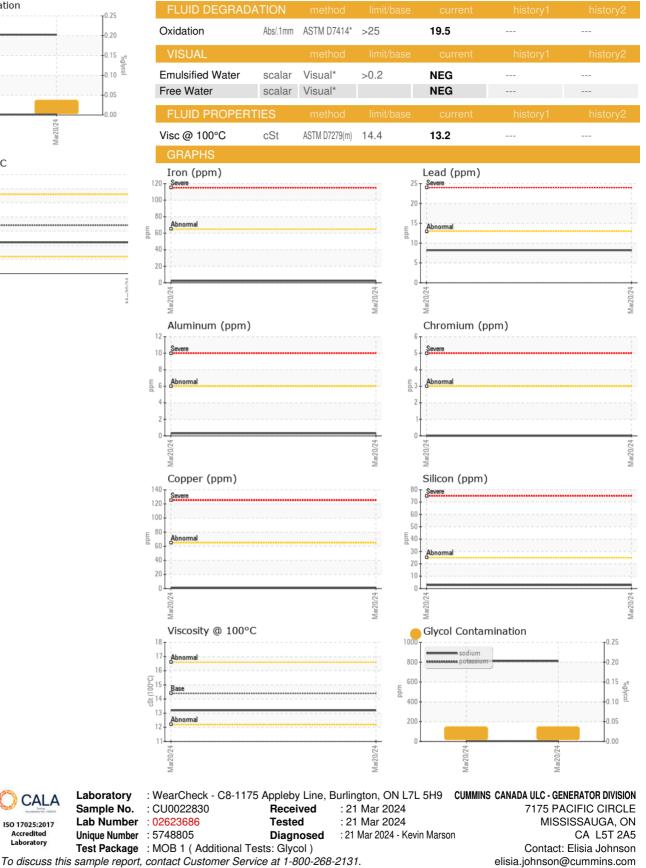
				Mar2024		
SAMPLE INFORM	<b>IATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		CU0022830		
Sample Date		Client Info		20 Mar 2024		
Machine Age	hrs	Client Info		8564		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ATTENTION		
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0		
Water		WC Method	>0.2	NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>65	2		
Chromium	ppm	ASTM D5185(m)	>3	0		
Nickel	ppm	ASTM D5185(m)	>2	<1		
Titanium	ppm	ASTM D5185(m)	>2	0		
Silver	ppm	ASTM D5185(m)	>2	0		
Aluminum	ppm	ASTM D5185(m)	>6	<1		
Lead	ppm	ASTM D5185(m)	>13	8		
Copper	ppm	ASTM D5185(m)	>65	<1		
Tin	ppm	ASTM D5185(m)	>2	0		
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	history2
Boron	ppm	ASTM D5185(m)	250	24		
Barium	ppm	ASTM D5185(m)	10	0		
Molybdenum	ppm	ASTM D5185(m)	100	69		
Manganese	ppm	ASTM D5185(m)		0		
Magnesium	ppm	ASTM D5185(m)	450	487		
Calcium	ppm	ASTM D5185(m)	3000	1636		
Phosphorus	ppm	ASTM D5185(m)	1150	717		
Zinc	ppm	ASTM D5185(m)	1350	819		
Sulfur	ppm	ASTM D5185(m)	4250	2005		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	3		
Sodium	ppm	ASTM D5185(m)	>158	<mark> </mark> 810		
Potassium	ppm	ASTM D5185(m)	>20	4		
Glycol	%	ASTM D7922*		<b>A</b> 0.037		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	0		
Nitration	Abs/cm	ASTM D7624*	>20	6.4		
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.6		
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Report Id: CUMMISGEN [WCAMIS] 02623686 (Generated: 03/21/2024 18:36:08) Rev: 1

Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.

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

CALA

ISO 17025:2017 Accredited

Laboratory

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