

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

MACLEAN MEM 977 NO UNIT WC0835130

Component

Diesel Engine

DIESEL ENGINE OIL SAE 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Moor

All component wear rates are normal.

Contamination

Light fuel dilution occurring.

Fluid Condition

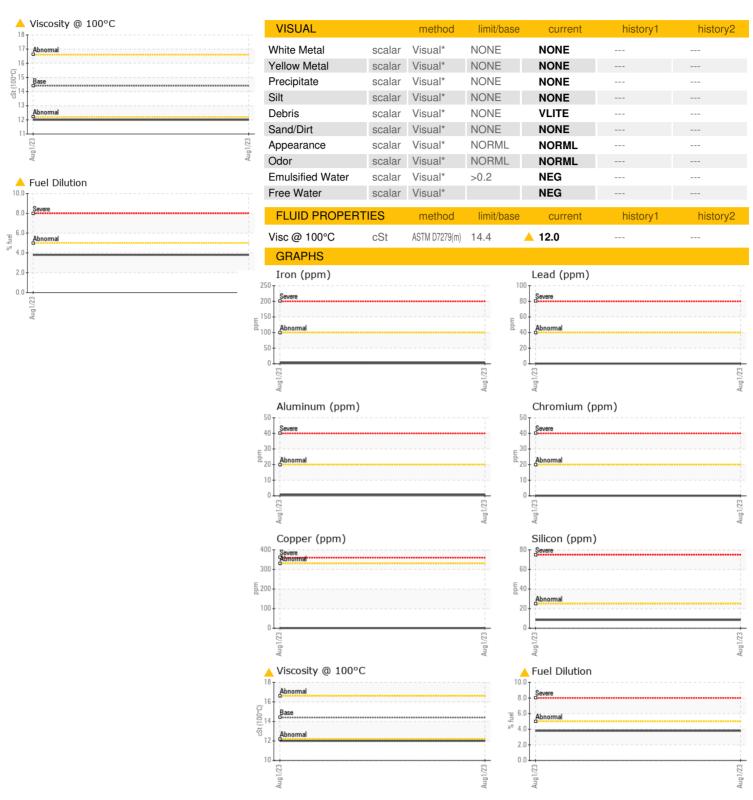
Fuel is present in the oil and is lowering the viscosity. The condition of the oil is acceptable for the time in service.

				Aug2023		
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0835130		
Sample Date		Client Info		01 Aug 2023		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Not Changd		
Sample Status				ABNORMAL		
CONTAMINATION	1	method	limit/base	current	history1	history2
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	3		
Chromium	ppm	ASTM D5185(m)	>20	0		
Nickel	ppm	ASTM D5185(m)	>4	<1		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)	>3	0		
Aluminum	ppm	ASTM D5185(m)	>20	<1		
Lead	ppm	ASTM D5185(m)	>40	<1		
Copper	ppm	ASTM D5185(m)	>330	<1		
Tin	ppm	ASTM D5185(m)	>15	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	68		
Barium	ppm	ASTM D5185(m)	10	0		
Molybdenum	ppm	ASTM D5185(m)	100	40		
Manganese	ppm	ASTM D5185(m)		<1		
Magnesium	ppm	ASTM D5185(m)	450	493		
Calcium	ppm	ASTM D5185(m)	3000	1775		
Phosphorus	ppm	ASTM D5185(m)	1150	779		
Zinc	ppm	ASTM D5185(m)	1350	855		
Sulfur	ppm	ASTM D5185(m)	4250	1987		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	8		
Sodium	ppm	ASTM D5185(m)	>158	4		
Potassium	ppm	ASTM D5185(m)	>20	0		
Fuel	%	ASTM D7593*	>5	△ 3.8		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0		
Nitration	Abs/cm	ASTM D7624*	>20	5.0		
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.6		
FLUID DEGRADA					hiotomut	hiotom
PLUID DEGRADA	TION	method	limit/base	current	history1	history2

Oxidation



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CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number **Unique Number**

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : WC0835130

: 02575327 : 5620378

Received Diagnosed

: 11 Aug 2023 Diagnostician : Wes Davis

: 14 Aug 2023 Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel, Visual)

Agnico Eagle Canada 1350 Government Rd. W, MACASSA COMPLEX Kirkland Lake, ON CA P2N 3J1

> Contact: Mike Campbell mike.campbell@agnicoeagle.com T: (705)567-5208

To discuss this sample report, contact Customer Service at 1-800-268-2131. 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.

Contact/Location: Mike Campbell - KIR370KIR

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