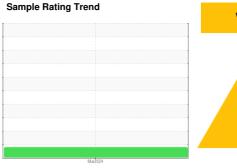


# **OIL ANALYSIS REPORT**







Machine Id **S185** Component

**Diesel Engine** 

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

## **DIAGNOSIS**

#### Recommendation

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample.

### Wear

Aluminum ppm levels are abnormal. Piston wear is indicated.

#### Contamination

There is no indication of any contamination in the

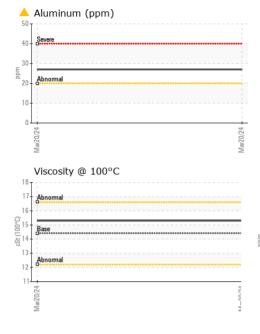
### **Fluid Condition**

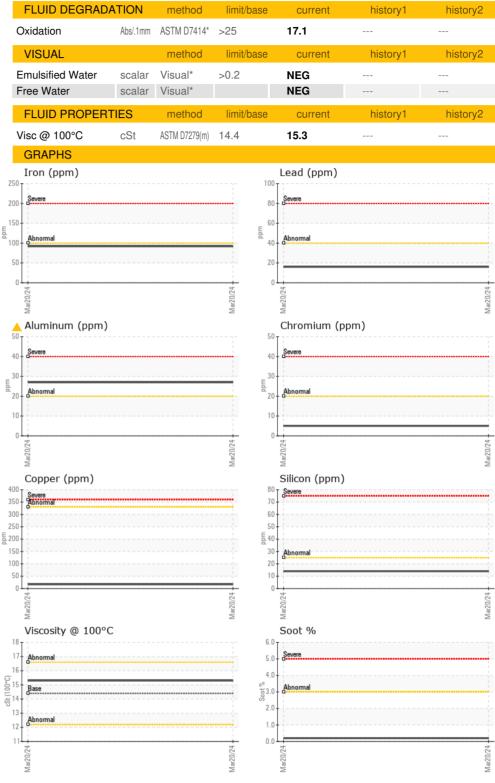
The oil is no longer serviceable as a result of the abnormal and/or severe wear.

				Mar2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0920167		
Sample Date		Client Info		20 Mar 2024		
Machine Age	hrs	Client Info		1675		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
		and the section of	1''-/		To Continuo and	la la tarre co
CONTAMINATION	V	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	92		
Chromium	ppm	ASTM D5185(m)	>20	5		
Nickel	ppm	ASTM D5185(m)	>4	<1		
Titanium	ppm	ASTM D5185(m)		<1		
Silver	ppm	ASTM D5185(m)	>3	0		
Aluminum	ppm	ASTM D5185(m)	>20	<u>^</u> 27		
Lead	ppm	ASTM D5185(m)	>40	16		
Copper	ppm	ASTM D5185(m)	>330	17		
Tin	ppm	ASTM D5185(m)	>15	5		
Antimony	ppm	ASTM D5185(m)		0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVEC		method	limit/base	ourront.	historyd	hiotom/0
ADDITIVES			IIIIII/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	250	3		
Barium	ppm	ASTM D5185(m)	10	<1		
Molybdenum	ppm	ASTM D5185(m)	100	56		
Manganese	ppm	ASTM D5185(m)		0		
Magnesium	ppm	ASTM D5185(m)	450	893		
Calcium	ppm	ASTM D5185(m)	3000	1137		
Phosphorus	ppm	ASTM D5185(m)	1150	828		
Zinc	ppm	ASTM D5185(m)	1350	1166		
Sulfur	ppm	ASTM D5185(m)	4250	1784		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	14		
Sodium	ppm	ASTM D5185(m)	>158	7		
Potassium	ppm	ASTM D5185(m)	>20	4		
INFRA-RED		method	limit/base	current	history1	history2
	0/					
Soot %	% Ala a /ausa	ASTM D7844*	>3	0.2		
Nitration	Abs/cm	ASTM D7624*	>20	9.1		
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.2		



## **OIL ANALYSIS REPORT**







CALA ISO 17025:2017 Accredited

Laboratory Sample No.

Lab Number : 02624626 Unique Number : 5749745 Test Package : MOB 1

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : WC0920167 : 26 Mar 2024 Received

**Tested** : 26 Mar 2024 Diagnosed

: 26 Mar 2024 - Kevin Marson

Agnico Eagle Canada 1350 Government Rd. W, MACASSA COMPLEX

Kirkland Lake, ON CA P2N 3J1

Contact: Mitch Lamontagne AEM\_KL\_macassaoilsampleresults@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.

F: (705)567-5221