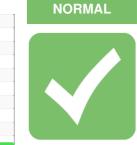


# **OIL ANALYSIS REPORT**

Sample Rating Trend



# #1707 - GRAND MARAIS PUMP STATION

Component

**Diesel Engine** 

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

### DIAGNOSIS

# Recommendation

Resample at the next service interval to monitor.

#### Wear

Metal levels are typical for a new component breaking in.

# 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 suitable for further service.

OMP STAT	ION					
•						
.)				Nov2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0876637		
Sample Date		Client Info		21 Nov 2023		
Machine Age	hrs	Client Info		505		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Not Changd		
Sample Status				NORMAL		
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	47		
Chromium	ppm	ASTM D5185(m)	>20	1		
Nickel	ppm	ASTM D5185(m)	>4	<1		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)	>3	<1		
Aluminum	ppm	ASTM D5185(m)	>20	3		
Lead	ppm	ASTM D5185(m)	>40	9		
Copper	ppm	ASTM D5185(m)	>330	284		
Tin	ppm	ASTM D5185(m)	>15	2		
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	16		
Barium	ppm	ASTM D5185(m)	10	<1		

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	250	16		
Barium	ppm	ASTM D5185(m)	10	<1		
Molybdenum	ppm	ASTM D5185(m)	100	0		
Manganese	ppm	ASTM D5185(m)		<1		
Magnesium	ppm	ASTM D5185(m)	450	8		
Calcium	ppm	ASTM D5185(m)	3000	2529		
Phosphorus	ppm	ASTM D5185(m)	1150	945		
Zinc	ppm	ASTM D5185(m)	1350	1204		
Sulfur	ppm	ASTM D5185(m)	4250	3167		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS	;	method	limit/base	current	history1	history2

Potassium	ppm	ASTM D5185(m)	>20	5		
INFRA-RED		method			history1	history2
Soot %	%	ASTM D7844*	>3	0.6		
Nitration	Abs/cm	ASTM D7624*	>20	8.8		
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.7		

ASTM D5185(m) >25

ASTM D5185(m) >158

5

3 5

Silicon

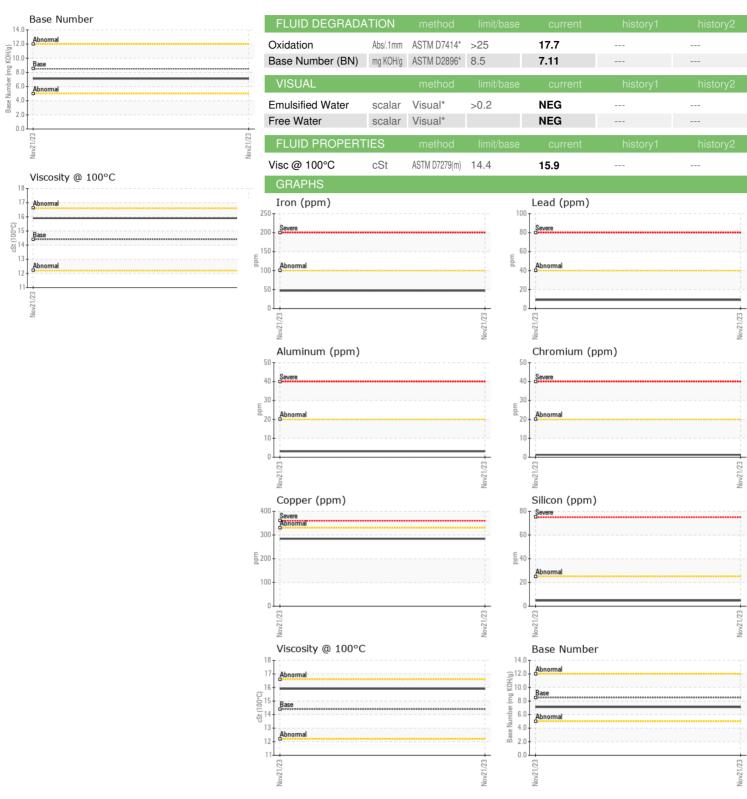
Sodium

ppm

ppm



# **OIL ANALYSIS REPORT**





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number Test Package : MOB 2

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : WC0876637 : 02601454

Received : 5694539

: 07 Dec 2023 : 08 Dec 2023 Diagnosed : Wes Davis Diagnostician

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.

**Lighthouse Electric** 6714 6th Conc South Amherstburg, ON CA N9V 0C8

Contact: Ken Olesen kolesen.lighthouse@gmail.com

T: (519)730-1310 F: (519)730-1310