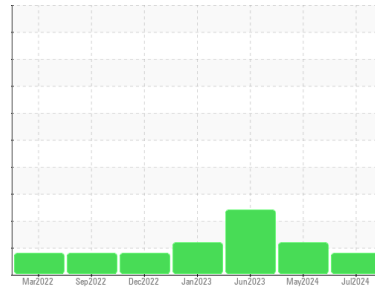




# OIL ANALYSIS REPORT

Sample Rating Trend



FUEL



Machine Id

## MACLEAN SL3 SL07

Component

Diesel Engine

Fluid

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

### DIAGNOSIS

#### Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

#### Wear

All component wear rates are normal.

#### Contamination

Light fuel dilution occurring. No other contaminants were detected in the oil.

#### Fluid Condition

The condition of the oil is acceptable for the time in service.

### SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>WC0960971</b>	WC0940460	WC0780961
Sample Date	Client Info	<b>11 Jul 2024</b>	28 May 2024	06 Jun 2023
Machine Age	hrs	<b>2418</b>	2465	1886
Oil Age	hrs	<b>300</b>	0	0
Oil Changed	Client Info	<b>Changed</b>	Changed	N/A
Sample Status		<b>MARGINAL</b>	ABNORMAL	SEVERE

### CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.2	<b>NEG</b>	NEG	NEG
Glycol	WC Method	<b>NEG</b>	NEG	NEG

### WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >100	<b>3</b>	3	4
Chromium	ppm ASTM D5185(m) >20	<b>0</b>	0	0
Nickel	ppm ASTM D5185(m) >4	<b>0</b>	0	<1
Titanium	ppm ASTM D5185(m)	<b>0</b>	0	<1
Silver	ppm ASTM D5185(m) >3	<b>0</b>	0	0
Aluminum	ppm ASTM D5185(m) >20	<b>&lt;1</b>	<1	1
Lead	ppm ASTM D5185(m) >40	<b>0</b>	0	<1
Copper	ppm ASTM D5185(m) >330	<b>&lt;1</b>	<1	11
Tin	ppm ASTM D5185(m) >15	<b>0</b>	0	<1
Antimony	ppm ASTM D5185(m)	<b>0</b>	0	<1
Vanadium	ppm ASTM D5185(m)	<b>0</b>	0	0
Beryllium	ppm ASTM D5185(m)	<b>0</b>	0	0
Cadmium	ppm ASTM D5185(m)	<b>0</b>	0	0

### ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m) 250	<b>58</b>	60	87
Barium	ppm ASTM D5185(m) 10	<b>0</b>	0	0
Molybdenum	ppm ASTM D5185(m) 100	<b>36</b>	36	24
Manganese	ppm ASTM D5185(m)	<b>&lt;1</b>	0	<1
Magnesium	ppm ASTM D5185(m) 450	<b>455</b>	474	232
Calcium	ppm ASTM D5185(m) 3000	<b>1515</b>	1596	1887
Phosphorus	ppm ASTM D5185(m) 1150	<b>734</b>	710	917
Zinc	ppm ASTM D5185(m) 1350	<b>801</b>	799	1011
Sulfur	ppm ASTM D5185(m) 4250	<b>2013</b>	2008	2613
Lithium	ppm ASTM D5185(m)	<b>&lt;1</b>	<1	<1

### CONTAMINANTS

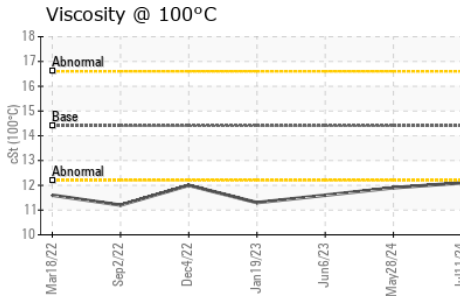
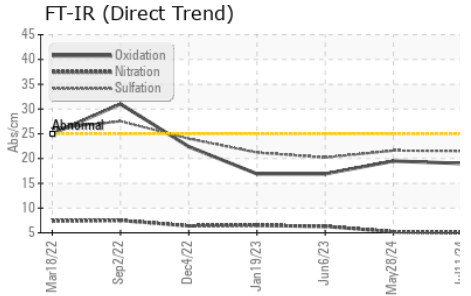
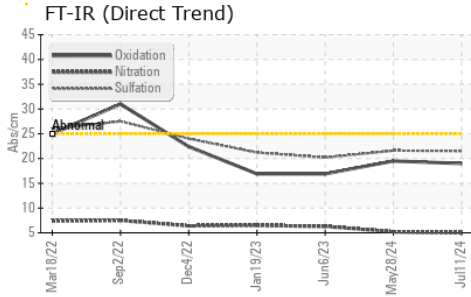
method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >25	<b>6</b>	6	3
Sodium	ppm ASTM D5185(m) >158	<b>2</b>	2	2
Potassium	ppm ASTM D5185(m) >20	<b>&lt;1</b>	0	2
Fuel	% ASTM D7593* >5	<b>▲ 3.1</b>	▲ 5.5	▲ 8.3

### INFRA-RED

method	limit/base	current	history1	history2
Soot %	% ASTM D7844* >3	<b>0</b>	0	0
Nitration	Abs/cm ASTM D7624* >20	<b>5.0</b>	5.2	6.3
Sulfation	Abs/.1mm ASTM D7415* >30	<b>21.5</b>	21.6	20.2



# OIL ANALYSIS REPORT

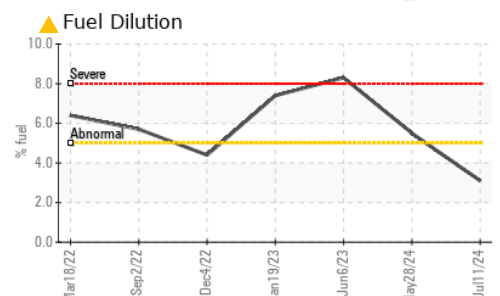
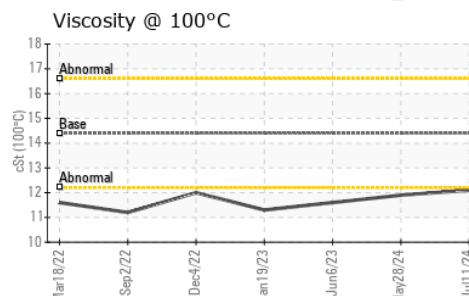
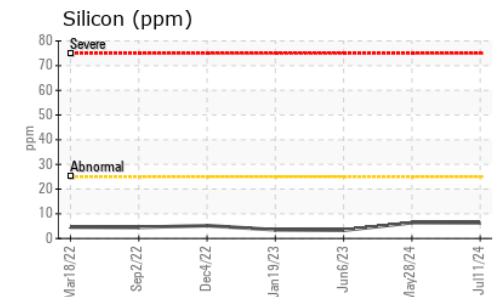
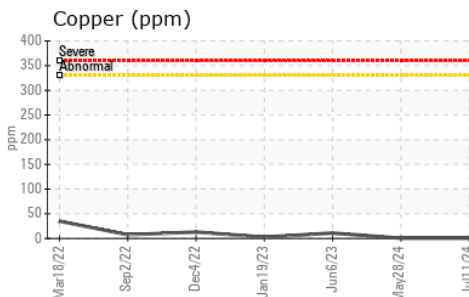
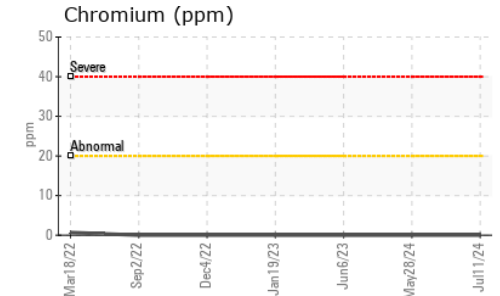
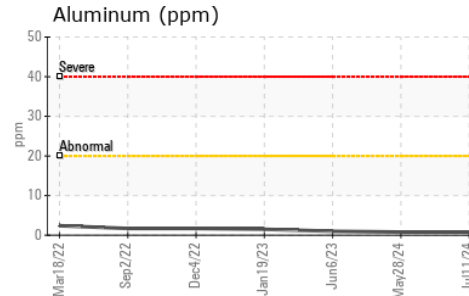
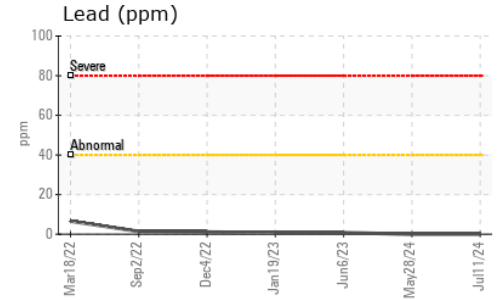
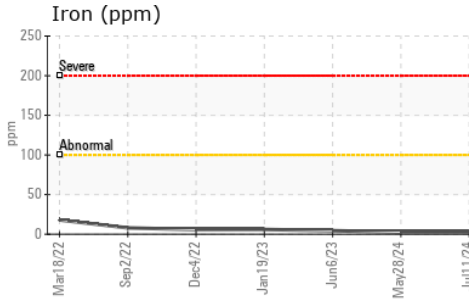


FLUID DEGRADATION	method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	19.5	16.9

VISUAL	method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG
Free Water	scalar	Visual*	NEG	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	12.1	11.9

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0960971  
**Lab Number** : 02648011  
**Unique Number** : 5813563  
**Test Package** : MOB 1 ( Additional Tests: PercentFuel )

**Agnico Eagle Canada**  
 1350 Government Rd. W, MACASSA COMPLEX  
 Kirkland Lake, ON  
 CA P2N 3J1  
 Contact: Jay Gould  
 MacassaMobileUGPlanning@agnicoeagle.com  
 T: (705)567-5208  
 F: (705)567-5221

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.