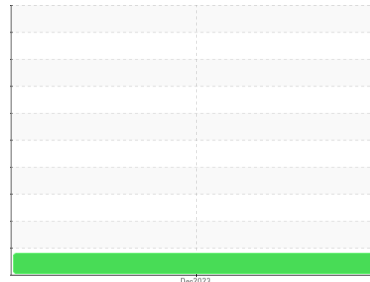




# OIL ANALYSIS REPORT

Sample Rating Trend



FUEL



Machine Id  
**MANITOU MT625H FOR436**

Component  
**Diesel Engine**

Fluid  
**DIESEL ENGINE OIL SAE 30 (--- GAL)**

## DIAGNOSIS

### ▲ Recommendation

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 30. Please confirm.

### Wear

Metal levels are typical for a new component breaking in.

### ▲ Contamination

There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

### Fluid Condition

The oil is no longer serviceable due to the presence of contaminants.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0886077</b>	---	---
Sample Date	Client Info		<b>20 Dec 2023</b>	---	---
Machine Age	hrs	Client Info	<b>410</b>	---	---
Oil Age	hrs	Client Info	<b>0</b>	---	---
Oil Changed	Client Info		<b>Changed</b>	---	---
Sample Status			<b>ABNORMAL</b>	---	---

## CONTAMINATION

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

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >100	<b>17</b>	---	---
Chromium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	---	---
Nickel	ppm	ASTM D5185(m) >4	<b>&lt;1</b>	---	---
Titanium	ppm	ASTM D5185(m)	<b>0</b>	---	---
Silver	ppm	ASTM D5185(m) >3	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185(m) >20	<b>2</b>	---	---
Lead	ppm	ASTM D5185(m) >40	<b>2</b>	---	---
Copper	ppm	ASTM D5185(m) >330	<b>101</b>	---	---
Tin	ppm	ASTM D5185(m) >15	<b>&lt;1</b>	---	---
Antimony	ppm	ASTM D5185(m)	<b>0</b>	---	---
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	---	---
Beryllium	ppm	ASTM D5185(m)	<b>0</b>	---	---
Cadmium	ppm	ASTM D5185(m)	<b>0</b>	---	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 250	<b>2</b>	---	---
Barium	ppm	ASTM D5185(m) 10	<b>3</b>	---	---
Molybdenum	ppm	ASTM D5185(m) 100	<b>1</b>	---	---
Manganese	ppm	ASTM D5185(m)	<b>3</b>	---	---
Magnesium	ppm	ASTM D5185(m) 450	<b>6</b>	---	---
Calcium	ppm	ASTM D5185(m) 3000	<b>2353</b>	---	---
Phosphorus	ppm	ASTM D5185(m) 1150	<b>831</b>	---	---
Zinc	ppm	ASTM D5185(m) 1350	<b>963</b>	---	---
Sulfur	ppm	ASTM D5185(m) 4250	<b>3550</b>	---	---
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---

## CONTAMINANTS

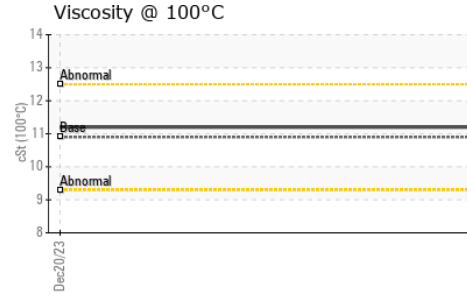
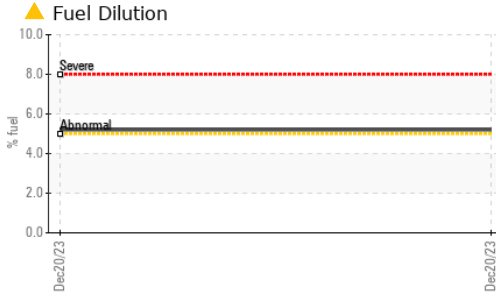
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	<b>12</b>	---	---
Sodium	ppm	ASTM D5185(m) >75	<b>2</b>	---	---
Potassium	ppm	ASTM D5185(m) >20	<b>2</b>	---	---
Fuel	%	ASTM D7593* >5	<b>▲ 5.2</b>	---	---

## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >3	<b>0</b>	---	---
Nitration	Abs/cm	ASTM D7624* >20	<b>7.0</b>	---	---
Sulfation	Abs./1mm	ASTM D7415* >30	<b>17.6</b>	---	---



# OIL ANALYSIS REPORT



### FLUID DEGRADATION

method	limit/base	current	history1	history2
Abs./1mm	ASTM D7414*	>25	---	---

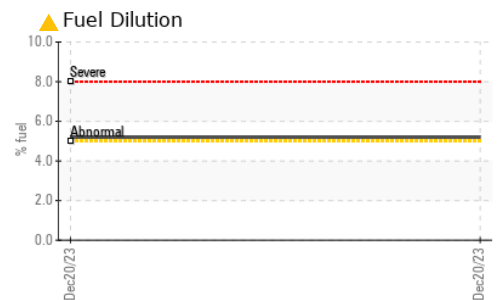
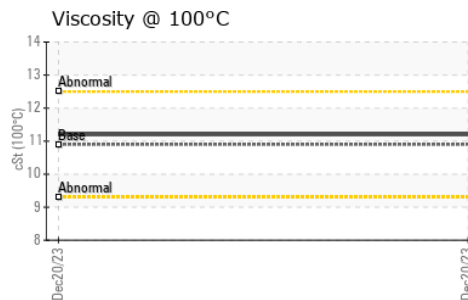
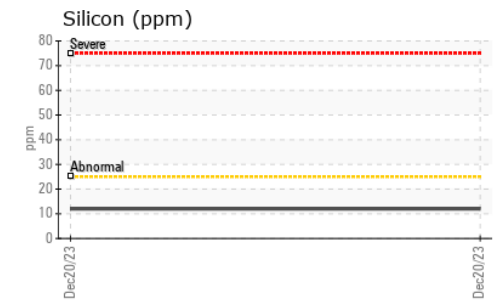
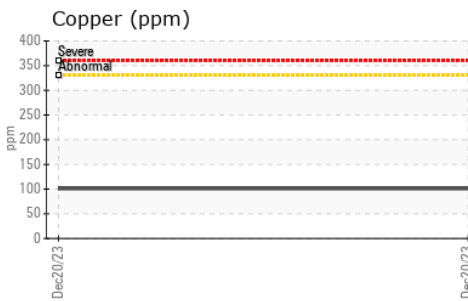
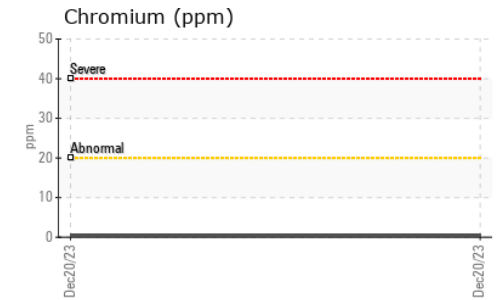
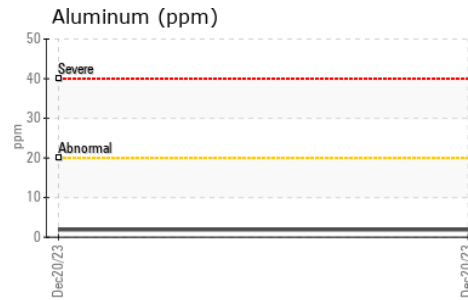
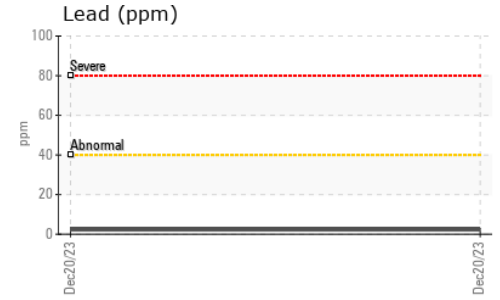
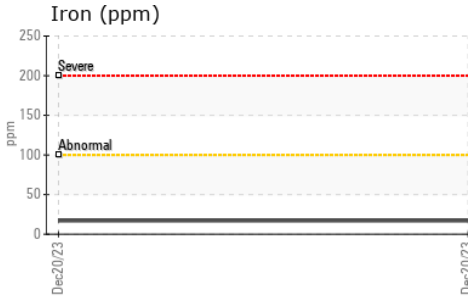
### VISUAL

method	limit/base	current	history1	history2
scalar	Visual*	>0.2	---	---
scalar	Visual*	NEG	---	---

### FLUID PROPERTIES

method	limit/base	current	history1	history2
cSt	ASTM D7279(m)	10.9	---	---

### GRAPHS



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0886077 **Received** : 04 Jan 2024  
**Lab Number** : 02606494 **Diagnosed** : 05 Jan 2024  
**Unique Number** : 5707580 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: FuelDilution, PercentFuel )

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

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.

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