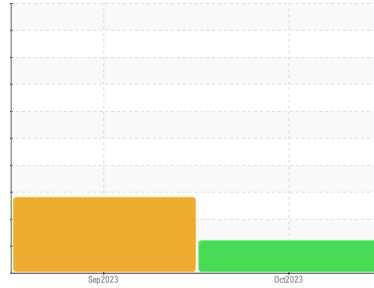




OIL ANALYSIS REPORT

Sample Rating Trend



FUEL



Machine Id
MANITOU MT625H FOR431

Component
Diesel Engine

Fluid
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.

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

Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0848124	WC0848120	---
Sample Date	Client Info		19 Oct 2023	25 Sep 2023	---
Machine Age	hrs	Client Info	843	639	---
Oil Age	hrs	Client Info	0	0	---
Oil Changed	Client Info		N/A	Changed	---
Sample Status			ABNORMAL	SEVERE	---

CONTAMINATION

	method	limit/base	current	history1	history2
Glycol	WC Method		NEG	NEG	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >100	5	27	---
Chromium	ppm	ASTM D5185(m) >20	0	<1	---
Nickel	ppm	ASTM D5185(m) >4	0	<1	---
Titanium	ppm	ASTM D5185(m)	0	0	---
Silver	ppm	ASTM D5185(m) >3	<1	<1	---
Aluminum	ppm	ASTM D5185(m) >20	1	2	---
Lead	ppm	ASTM D5185(m) >40	<1	2	---
Copper	ppm	ASTM D5185(m) >330	6	87	---
Tin	ppm	ASTM D5185(m) >15	0	<1	---
Antimony	ppm	ASTM D5185(m)	0	0	---
Vanadium	ppm	ASTM D5185(m)	0	0	---
Beryllium	ppm	ASTM D5185(m)	0	0	---
Cadmium	ppm	ASTM D5185(m)	0	0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 250	45	2	---
Barium	ppm	ASTM D5185(m) 10	<1	3	---
Molybdenum	ppm	ASTM D5185(m) 100	34	1	---
Manganese	ppm	ASTM D5185(m)	0	4	---
Magnesium	ppm	ASTM D5185(m) 450	415	8	---
Calcium	ppm	ASTM D5185(m) 3000	1677	2216	---
Phosphorus	ppm	ASTM D5185(m) 1150	728	757	---
Zinc	ppm	ASTM D5185(m) 1350	831	908	---
Sulfur	ppm	ASTM D5185(m) 4250	2071	2913	---
Lithium	ppm	ASTM D5185(m)	<1	<1	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	4	11	---
Sodium	ppm	ASTM D5185(m) >158	3	5	---
Potassium	ppm	ASTM D5185(m) >20	0	3	---
Fuel	%	ASTM D7593* >5	▲ 6.2	◆ 9.1	---

INFRA-RED

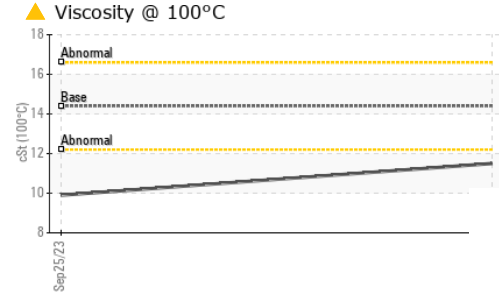
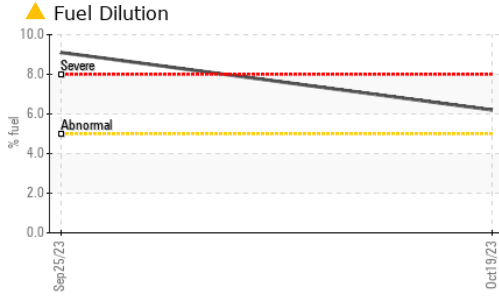
	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >3	0	0	---
Nitration	Abs/cm	ASTM D7624* >20	6.5	10.0	---
Sulfation	Abs/.1mm	ASTM D7415* >30	22.9	24.1	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414* >25	22.3	22.7	---



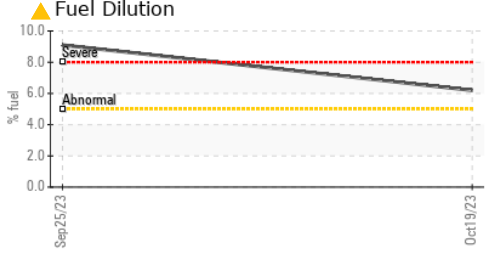
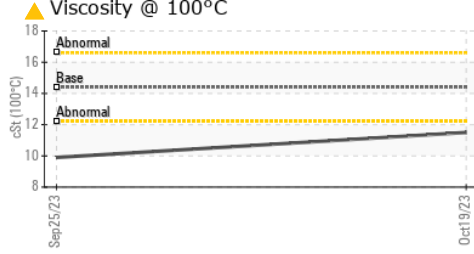
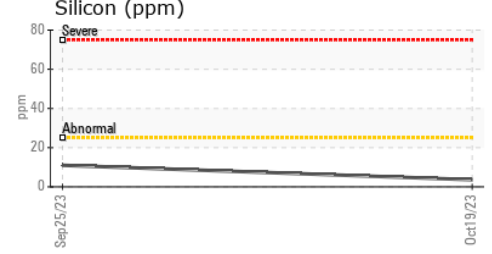
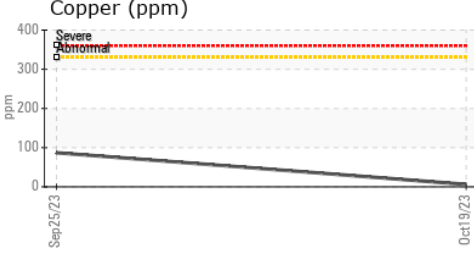
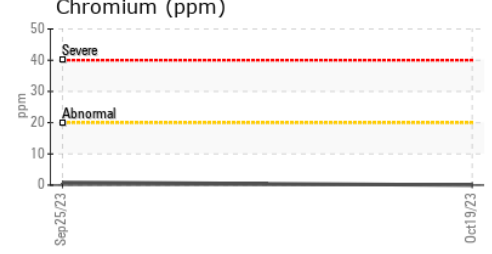
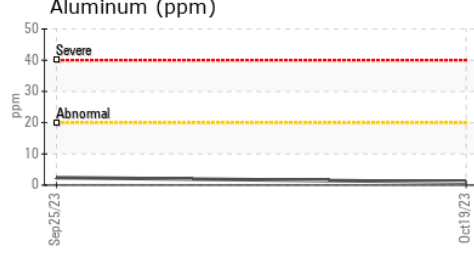
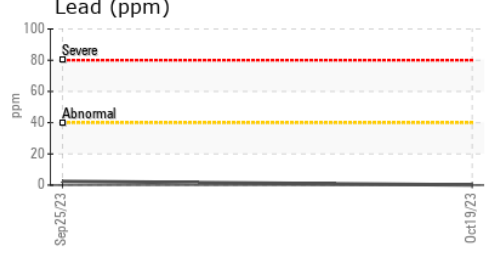
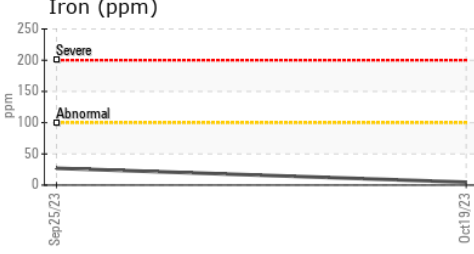
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	VLITE	---
Yellow Metal	scalar	Visual*	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.2	NEG	---
Free Water	scalar	Visual*		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	14.4 ▲ 11.5	9.9	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0848124 **Received** : 26 Oct 2023
Lab Number : 02591999 **Diagnosed** : 27 Oct 2023
Unique Number : 5669078 **Diagnostician** : Wes Davis
Test Package : MOB 1 (Additional Tests: PercentFuel, Visual)

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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.