

Machine Id
MANITOU 1
Component
Hydraulic System
Fluid
{not provided} (--- LTR)

DIAGNOSIS

▲ Recommendation

Check seals and/or filters for points of contaminant entry. We advise that you check all areas where contaminants can enter the system. We advise that you check for visible metal particles in the oil. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation. Please specify the brand, type, and viscosity of the oil on your next sample. We suspect that the abnormal contaminant(s) is the result of incorrect sampling technique. **DISCLAIMER:** Interpretation of results is based on the sample as received from the customer. The condition of the sample and the method of sampling cannot be verified.

▲ Wear

Light concentration of visible metal present. Bearing and/or bushing wear is indicated.

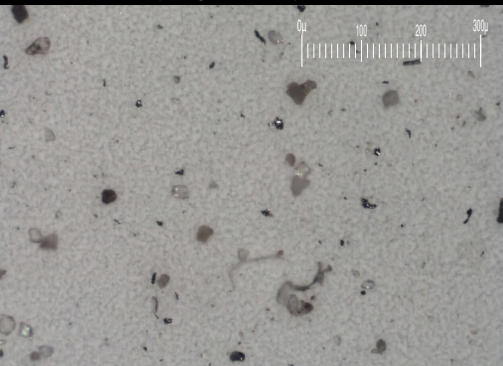
▲ Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil. Moderate concentration of visible dirt/debris present in the oil.

▲ Fluid Condition

Viscosity of sample indicates oil is within SAE 5W20 range, advise investigate. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Particle Filter (Magn: 100 x)



SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PC0008609	---	---
Sample Date	Client Info	27 May 2024	---	---
Machine Age	kms Client Info	2500	---	---
Oil Age	kms Client Info	0	---	---
Oil Changed	Client Info	Not Chngd	---	---
Sample Status		SEVERE	---	---

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.1	NEG	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >20	18	---	---
Chromium	ppm ASTM D5185(m) >10	0	---	---
Nickel	ppm ASTM D5185(m) >10	<1	---	---
Titanium	ppm ASTM D5185(m)	<1	---	---
Silver	ppm ASTM D5185(m)	0	---	---
Aluminum	ppm ASTM D5185(m) >10	4	---	---
Lead	ppm ASTM D5185(m) >10	▲ 15	---	---
Copper	ppm ASTM D5185(m) >75	17	---	---
Tin	ppm ASTM D5185(m) >10	0	---	---
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)	63	---	---
Barium	ppm ASTM D5185(m)	<1	---	---
Molybdenum	ppm ASTM D5185(m)	0	---	---
Manganese	ppm ASTM D5185(m)	2	---	---
Magnesium	ppm ASTM D5185(m)	306	---	---
Calcium	ppm ASTM D5185(m)	532	---	---
Phosphorus	ppm ASTM D5185(m)	510	---	---
Zinc	ppm ASTM D5185(m)	607	---	---
Sulfur	ppm ASTM D5185(m)	2271	---	---
Lithium	ppm ASTM D5185(m)	<1	---	---

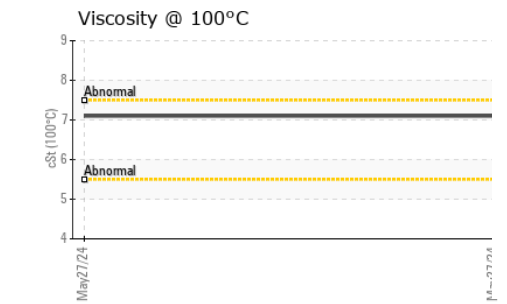
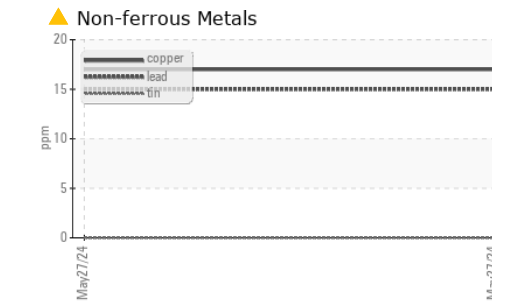
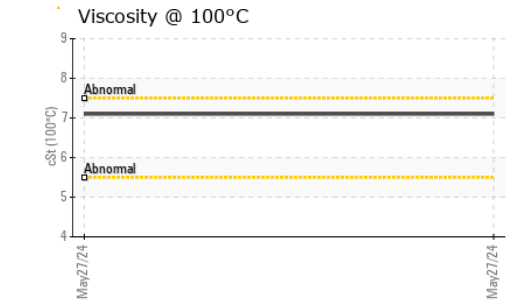
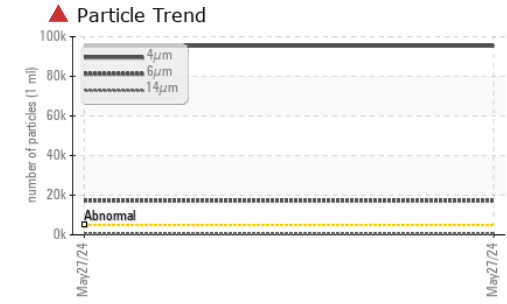
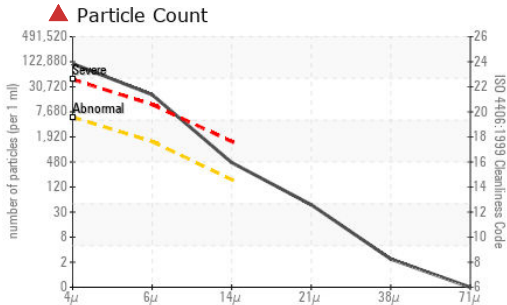
CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >20	3	---	---
Sodium	ppm ASTM D5185(m)	3	---	---
Potassium	ppm ASTM D5185(m) >20	1	---	---

FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	▲ 95331	---	---
Particles >6µm	ASTM D7647 >1300	▲ 17227	---	---
Particles >14µm	ASTM D7647 >160	▲ 408	---	---
Particles >21µm	ASTM D7647 >40	40	---	---
Particles >38µm	ASTM D7647 >10	2	---	---
Particles >71µm	ASTM D7647 >3	0	---	---
Oil Cleanliness	ISO 4406 (c) >19/17/14	▲ 24/21/16	---	---

OIL ANALYSIS REPORT



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0008609
Lab Number : 02638131
Unique Number : 5787293
Test Package : MOB 2 (Additional Tests: Bottom, BottomAnalysis, FilterPatch, KV100, PrtFilter)

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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.

VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	▲ VLITE	---
Yellow Metal	scalar	Visual*	NONE	VLITE	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	---
Debris	scalar	Visual*	NONE	▲ LIGHT	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.1	NEG	---
Free Water	scalar	Visual*		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	▲ 34.4	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	7.1	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	175	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image
PrtFilter				no image	no image

GRAPHS

