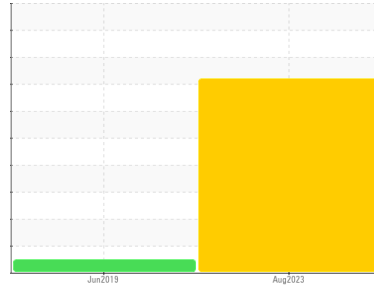




# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id  
**T001248 (S/N 16-M-06-1996)**

Component  
**Hydraulic System**

Fluid  
**AW HYDRAULIC OIL ISO 46 (--- GAL)**

## DIAGNOSIS

### Recommendation

We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. 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. Resample in 30-45 days to monitor this situation. 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

Iron ppm levels are noted. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. All other component wear rates are normal.

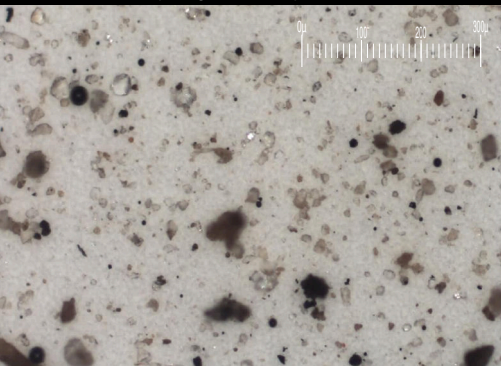
### Contamination

There is a high amount of particulates (2 to 100 microns in size) present in the oil. Light concentration of visible dirt/debris present in the oil.

### Fluid Condition

The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Particle Filter (Magn: 100 x)



## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0832197</b>	WC0348979	---
Sample Date	Client Info		<b>04 Aug 2023</b>	19 Jun 2019	---
Machine Age	hrs	Client Info	<b>6048</b>	2700	---
Oil Age	hrs	Client Info	<b>0</b>	0	---
Oil Changed	Client Info		<b>N/A</b>	N/A	---
Sample Status			<b>SEVERE</b>	NORMAL	---

## WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184*		<b>0</b>	---	---
Iron	ppm	ASTM D5185(m) >20	<b>▲ 28</b>	18	---
Chromium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	0	---
Nickel	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	<1	---
Titanium	ppm	ASTM D5185(m)	<b>0</b>	0	---
Silver	ppm	ASTM D5185(m)	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185(m) >20	<b>2</b>	<1	---
Lead	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	<1	---
Copper	ppm	ASTM D5185(m) >20	<b>7</b>	5	---
Tin	ppm	ASTM D5185(m) >20	<b>0</b>	0	---
Antimony	ppm	ASTM D5185(m)	<b>0</b>	0	---
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	0	---
Beryllium	ppm	ASTM D5185(m)	<b>0</b>	0	---
Cadmium	ppm	ASTM D5185(m)	<b>0</b>	0	---

## ADDITIVES

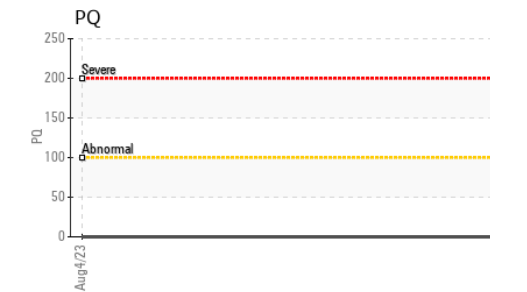
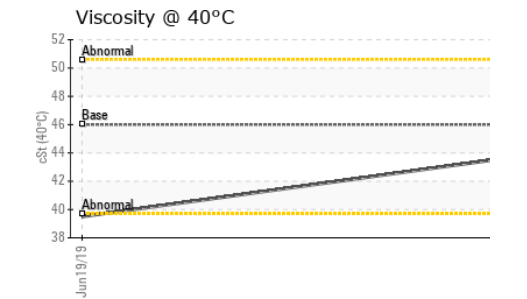
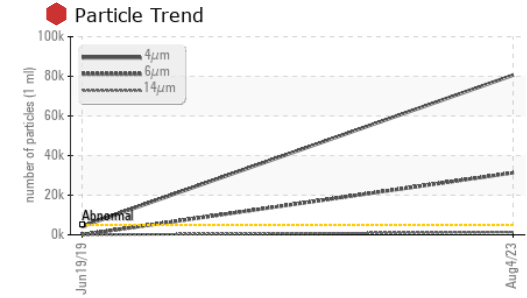
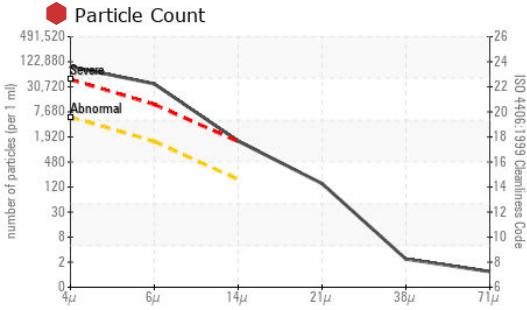
	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 5	<b>3</b>	<1	---
Barium	ppm	ASTM D5185(m) 5	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185(m) 5	<b>&lt;1</b>	<1	---
Manganese	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185(m) 25	<b>2</b>	2	---
Calcium	ppm	ASTM D5185(m) 200	<b>141</b>	181	---
Phosphorus	ppm	ASTM D5185(m) 300	<b>400</b>	404	---
Zinc	ppm	ASTM D5185(m) 370	<b>449</b>	543	---
Sulfur	ppm	ASTM D5185(m) 2500	<b>1715</b>	1998	---
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	0	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >15	<b>4</b>	1	---
Sodium	ppm	ASTM D5185(m)	<b>5</b>	5	---
Potassium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	<1	---

## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	<b>80602</b>	4224	---
Particles >6µm	ASTM D7647	>1300	<b>31318</b>	55	---
Particles >14µm	ASTM D7647	>160	<b>1331</b>	2	---
Particles >21µm	ASTM D7647	>40	<b>▲ 128</b>	0	---
Particles >38µm	ASTM D7647	>10	<b>2</b>	0	---
Particles >71µm	ASTM D7647	>3	<b>1</b>	0	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>24/22/18</b>	19/13/9	---

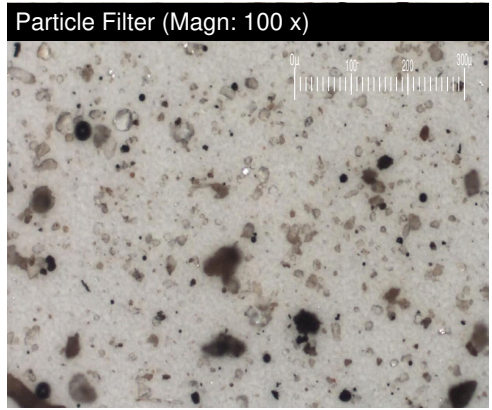
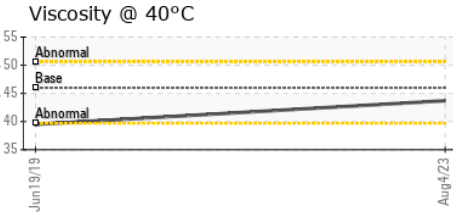
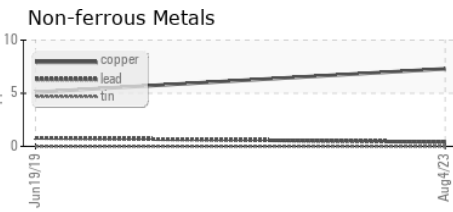
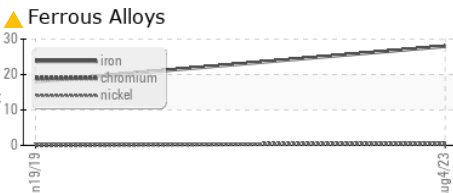


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	VLITE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	▲ LIGHT	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.05	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	46	43.7	39.5

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

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0832197 **Received** : 11 Aug 2023  
**Lab Number** : 02575404 **Diagnosed** : 14 Aug 2023  
**Unique Number** : 5620455 **Diagnostician** : Kevin Marson  
**Test Package** : MOB 2 ( Additional Tests: Bottom, BottomAnalysis, FilterPatch, PQ, PrtFilter )

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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