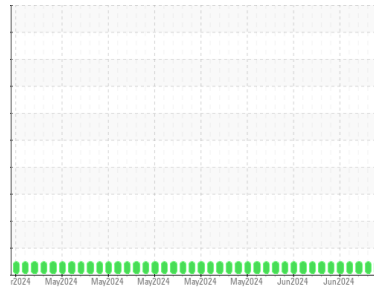




# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Machine Id

**QC240415IND2**

Component

**Hydraulic System**

Fluid

**AW HYDRAULIC OIL ISO 68 (--- GAL)**

### DIAGNOSIS

#### Recommendation

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

#### Wear

All component wear rates are normal.

#### Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable.

#### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

### SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>WC0948179</b>	WC0948177	WC0948175
Sample Date	Client Info	<b>21 Jun 2024</b>	19 Jun 2024	17 Jun 2024
Machine Age	hrs Client Info	<b>0</b>	0	0
Oil Age	hrs Client Info	<b>0</b>	0	0
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL

### WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >20	<b>0</b>	0	0
Chromium	ppm ASTM D5185(m) >20	<b>0</b>	0	0
Nickel	ppm ASTM D5185(m) >20	<b>&lt;1</b>	<1	<1
Titanium	ppm ASTM D5185(m)	<b>0</b>	0	0
Silver	ppm ASTM D5185(m)	<b>0</b>	0	0
Aluminum	ppm ASTM D5185(m) >20	<b>&lt;1</b>	<1	0
Lead	ppm ASTM D5185(m) >20	<b>0</b>	0	0
Copper	ppm ASTM D5185(m) >20	<b>&lt;1</b>	0	0
Tin	ppm ASTM D5185(m) >20	<b>0</b>	0	0
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) 5	<b>&lt;1</b>	<1	0
Barium	ppm ASTM D5185(m) 5	<b>0</b>	0	0
Molybdenum	ppm ASTM D5185(m) 5	<b>0</b>	0	0
Manganese	ppm ASTM D5185(m)	<b>0</b>	0	0
Magnesium	ppm ASTM D5185(m) 25	<b>&lt;1</b>	<1	<1
Calcium	ppm ASTM D5185(m) 200	<b>48</b>	45	49
Phosphorus	ppm ASTM D5185(m) 300	<b>225</b>	224	233
Zinc	ppm ASTM D5185(m) 370	<b>296</b>	280	300
Sulfur	ppm ASTM D5185(m) 2500	<b>5246</b>	4969	5374
Lithium	ppm ASTM D5185(m)	<b>&lt;1</b>	<1	<1

### CONTAMINANTS

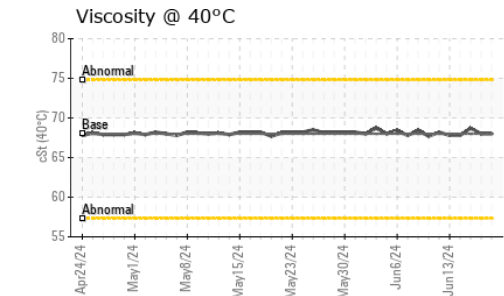
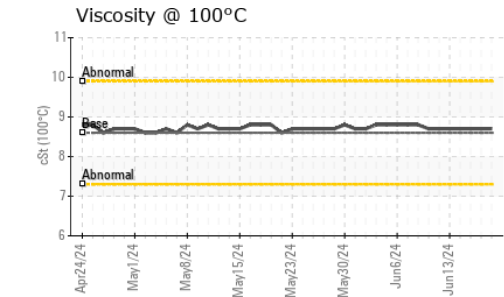
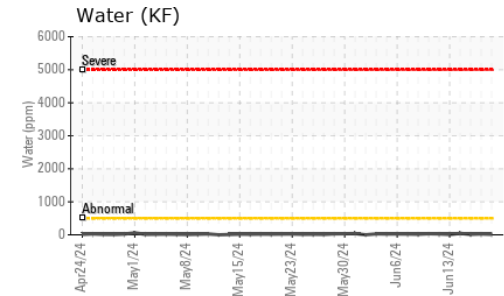
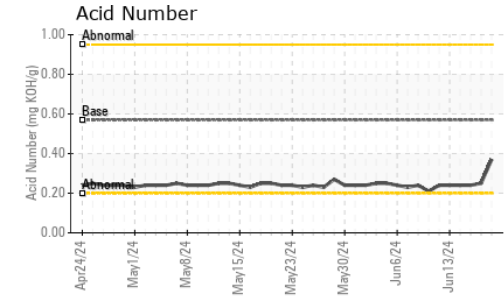
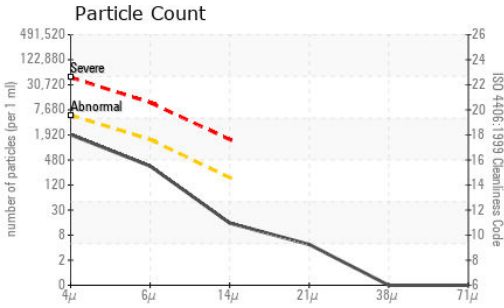
method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >15	<b>0</b>	0	0
Sodium	ppm ASTM D5185(m)	<b>0</b>	0	0
Potassium	ppm ASTM D5185(m) >20	<b>0</b>	0	0
Water	% ASTM D6304* >0.05	<b>0.001</b>	0.003	0.001
ppm Water	ppm ASTM D6304* >500	<b>13</b>	27	13

### FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	<b>1705</b>	276	278
Particles >6µm	ASTM D7647 >1300	<b>301</b>	73	70
Particles >14µm	ASTM D7647 >160	<b>13</b>	9	8
Particles >21µm	ASTM D7647 >40	<b>4</b>	3	2
Particles >38µm	ASTM D7647 >10	<b>0</b>	1	1
Particles >71µm	ASTM D7647 >3	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c) >19/17/14	<b>18/15/11</b>	15/13/10	15/13/10



# OIL ANALYSIS REPORT



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0948179  
**Lab Number** : **02643424**  
**Unique Number** : 5800963  
**Test Package** : IND 2 ( Additional Tests: KF, KV100, TAN Man, VI )

**WearCheck Quality Control Sample Results**  
 Received : 21 Jun 2024  
 Tested : 24 Jun 2024  
 Diagnosed : 24 Jun 2024 - Kevin Marson  
 Burlington, ON  
 CA  
 Contact: Dorian Anderson  
 dorian.anderson@wearcheck.com  
 T: (289)291-4652  
 F: (905)569-8605

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.

FLUID DEGRADATION	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D974*	0.57	<b>0.37</b>	0.25	0.24

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

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D7279(m)	68	<b>68.0</b>	68.0	68.7
Visc @ 100°C	cSt	ASTM D7279(m)	8.6	<b>8.7</b>	8.7	8.7
Viscosity Index (VI)	Scale	ASTM D2270*	96	<b>99</b>	99	97

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

