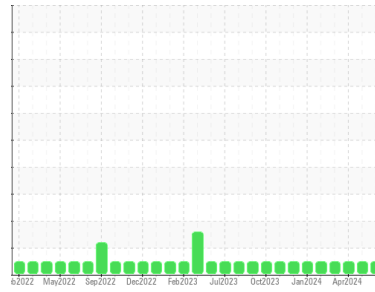




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**HARRIS**  
 Component  
**Hydraulic System**  
 Fluid  
**GULF HYD 46 (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

### Wear

All component wear rates are normal.

### Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. 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>WC0860340</b>	WC0910243	WC0860339
Sample Date	Client Info		<b>03 Jul 2024</b>	31 May 2024	30 Apr 2024
Machine Age	hrs	Client Info	<b>27306</b>	27098	26907
Oil Age	hrs	Client Info	<b>27306</b>	27098	26907
Oil Changed	Client Info		<b>Not Chngd</b>	N/A	Not Chngd
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

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

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	<b>9</b>	10	8
Chromium	ppm	ASTM D5185m >10	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185m >10	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m	<b>0</b>	<1	0
Silver	ppm	ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >10	<b>0</b>	3	0
Lead	ppm	ASTM D5185m >10	<b>0</b>	2	<1
Copper	ppm	ASTM D5185m >75	<b>17</b>	17	16
Tin	ppm	ASTM D5185m >10	<b>0</b>	2	1
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	<1	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>0</b>	0	0
Barium	ppm	ASTM D5185m	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185m	<b>&lt;1</b>	1	0
Manganese	ppm	ASTM D5185m	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m	<b>6</b>	7	4
Calcium	ppm	ASTM D5185m	<b>392</b>	413	415
Phosphorus	ppm	ASTM D5185m	<b>368</b>	379	382
Zinc	ppm	ASTM D5185m	<b>430</b>	471	467
Sulfur	ppm	ASTM D5185m	<b>1898</b>	1731	2069

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	<b>4</b>	4	4
Sodium	ppm	ASTM D5185m	<b>4</b>	0	1
Potassium	ppm	ASTM D5185m >20	<b>0</b>	2	<1

## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	<b>637</b>	---	2684
Particles >6µm	ASTM D7647	>1300	<b>147</b>	---	483
Particles >14µm	ASTM D7647	>160	<b>10</b>	---	20
Particles >21µm	ASTM D7647	>40	<b>4</b>	---	6
Particles >38µm	ASTM D7647	>10	<b>1</b>	---	1
Particles >71µm	ASTM D7647	>3	<b>0</b>	---	0
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>16/14/10</b>	---	19/16/11

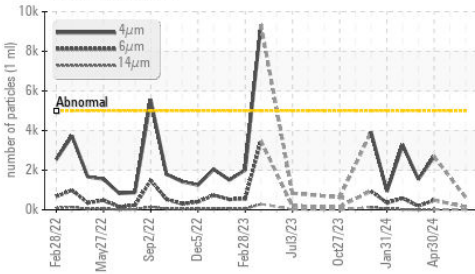
## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.40</b>	---	0.42

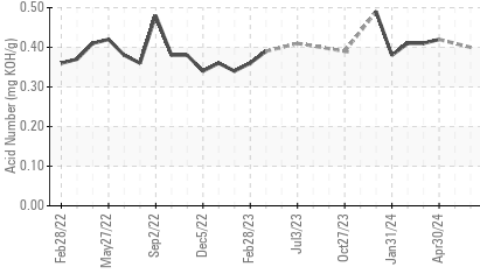


# OIL ANALYSIS REPORT

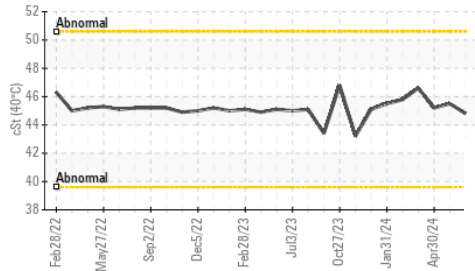
Particle Trend



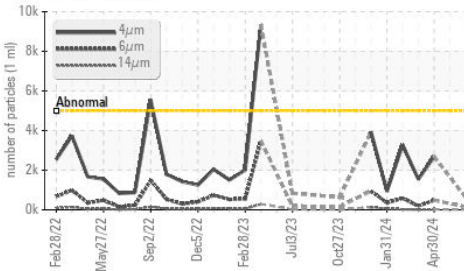
Acid Number



Viscosity @ 40°C



Particle Trend



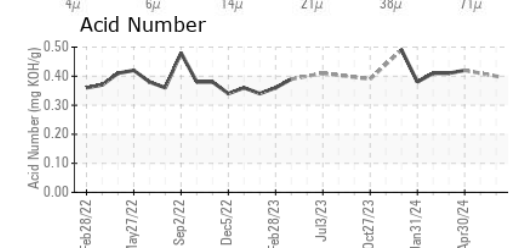
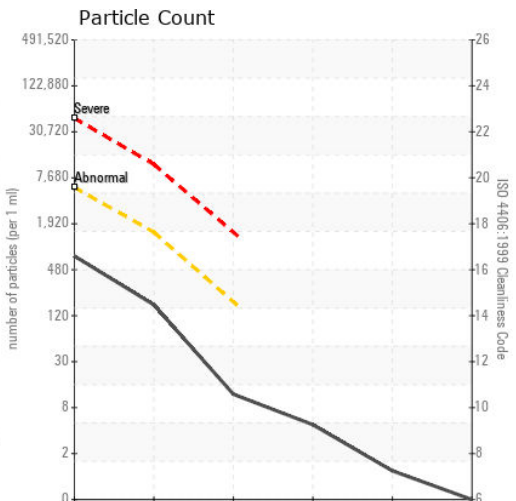
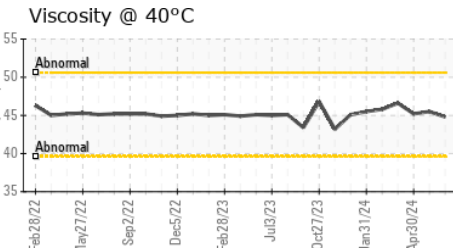
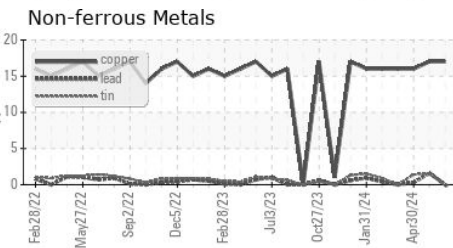
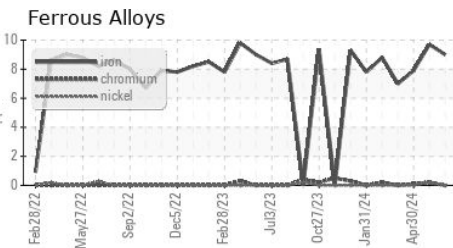
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	44.8	45.5	45.2

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

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0860340  
**Lab Number** : 06236229  
**Unique Number** : 11125063  
**Test Package** : MOB 2

**ONEIDA HERKIMER SOLID WASTE**  
 80 LELAND AVENUE  
 UTICA, NY  
 US 13502  
 Contact: Service Manager

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)