



# OIL ANALYSIS REPORT

Sample Rating Trend

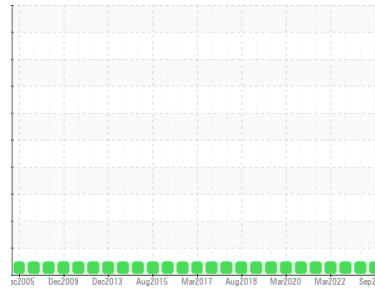
**NORMAL**



Machine Id  
**ALLIS-CHALMERS U-32 GENERATOR**

Component  
**Thrust Bearing**

Fluid  
**NOT GIVEN (2000 GAL)**



## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

### 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>WC0845025</b>	WC0786711	WC0731030
Sample Date	Client Info		<b>13 Sep 2023</b>	03 Mar 2023	16 Sep 2022
Machine Age	yrs	Client Info	<b>0</b>	0	0
Oil Age	yrs	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 D5185m >85	<b>&lt;1</b>	<1	<1
Chromium	ppm	ASTM D5185m >20	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m >20	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	<b>0</b>	0	<1
Silver	ppm	ASTM D5185m	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m >40	<b>0</b>	<1	0
Lead	ppm	ASTM D5185m >60	<b>0</b>	<1	0
Copper	ppm	ASTM D5185m >7	<b>1</b>	<1	<1
Tin	ppm	ASTM D5185m >40	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	<1
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	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	0
Molybdenum	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	0	1
Magnesium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	1
Calcium	ppm	ASTM D5185m	<b>24</b>	22	15
Phosphorus	ppm	ASTM D5185m	<b>15</b>	8	26
Zinc	ppm	ASTM D5185m	<b>0</b>	<1	0
Sulfur	ppm	ASTM D5185m	<b>6634</b>	5061	6042

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	<b>&lt;1</b>	<1	1
Sodium	ppm	ASTM D5185m	<b>3</b>	0	<1
Potassium	ppm	ASTM D5185m >20	<b>1</b>	1	0

## FLUID CLEANLINESS

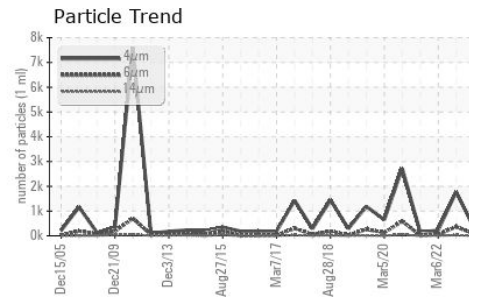
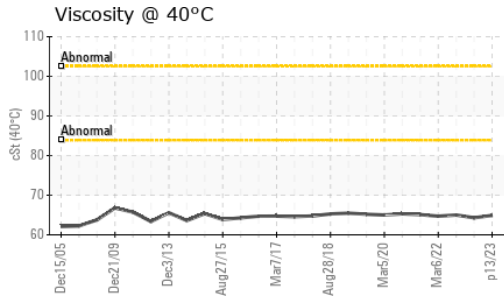
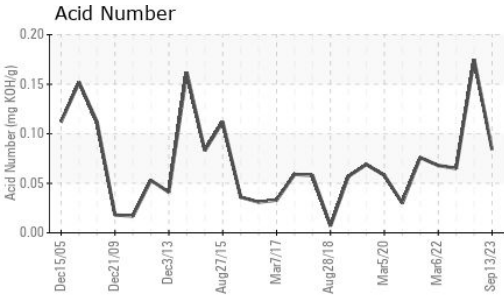
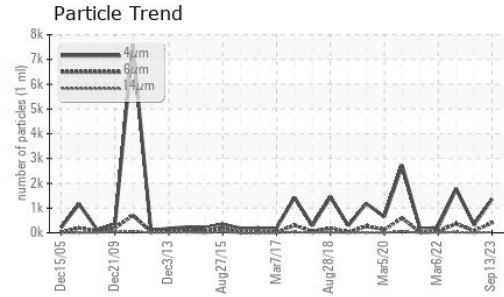
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		<b>1364</b>	314	1771
Particles >6µm	ASTM D7647 >1300		<b>401</b>	75	368
Particles >14µm	ASTM D7647 >160		<b>25</b>	5	27
Particles >21µm	ASTM D7647 >40		<b>4</b>	0	5
Particles >38µm	ASTM D7647 >10		<b>0</b>	0	0
Particles >71µm	ASTM D7647 >3		<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c)	>--/17/14	<b>18/16/12</b>	15/13/10	18/16/12

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.084</b>	0.175	0.065



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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	>2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	<b>64.9</b>	64.3	65.0

SAMPLE IMAGES	method	limit/base	current	history1	history2
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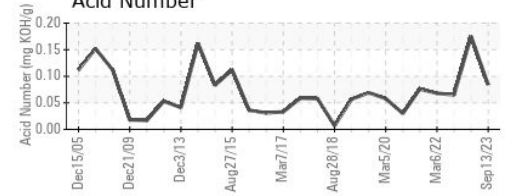
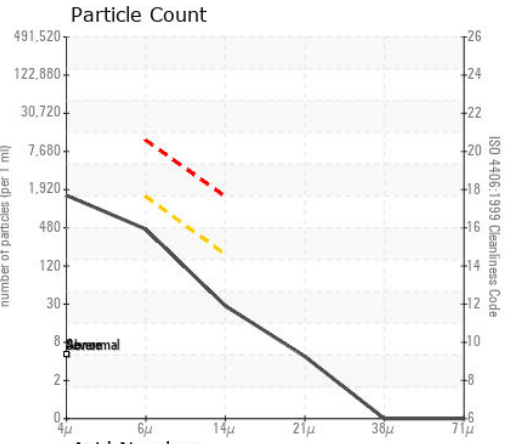
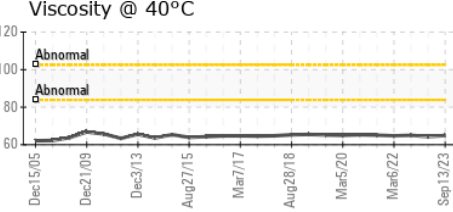
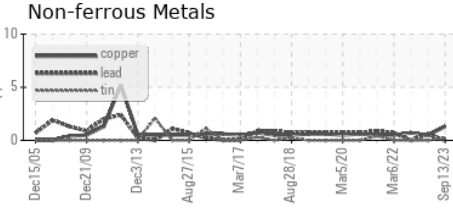
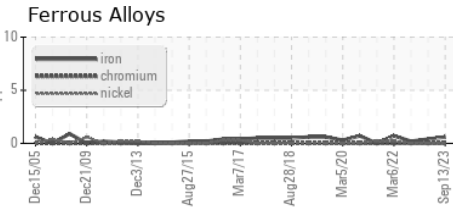
**Color**

**Bottom**

**PrtFilter**

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## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0845025      **Received** : 25 Sep 2023  
**Lab Number** : 05960581      **Diagnosed** : 27 Sep 2023  
**Unique Number** : 10661794      **Diagnostician** : Don Baldrige  
**Test Package** : PLANT ( Additional Tests: FilterPatch )

**NEW YORK POWER AUTHORITY**  
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 US 13662  
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 Andy.Westmacott@nypa.gov  
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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)