

## **OIL ANALYSIS REPORT**

# ALLIS-CHALMERS U-32 TURBINE BRG

Turbine Fluid NOT GIVEN (100 GAL)

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

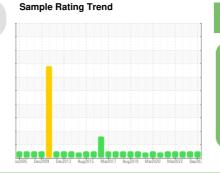
All component wear rates are normal.

#### 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.





NORMAL

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0845026	WC0786712	WC0731029
Sample Date		Client Info		13 Sep 2023	03 Mar 2023	16 Sep 2022
Machine Age	yrs	Client Info		0	0	0
Oil Age	yrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>15	<1	1	1
Chromium	ppm	ASTM D5185m	>4	0	0	0
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>10	0	<1	0
Lead	ppm	ASTM D5185m		0	1	0
Copper	ppm	ASTM D5185m	>5	1	3	3
Tin	ppm	ASTM D5185m	>5	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	0	<1
Manganese	ppm	ASTM D5185m		<1	0	1
Magnesium	ppm	ASTM D5185m		<1	<1	2
Calcium	ppm	ASTM D5185m		2	15	6
Phosphorus	ppm	ASTM D5185m		14	4	20
Zinc	ppm	ASTM D5185m		6	2	<1
Sulfur	ppm	ASTM D5185m		941	4616	5472
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	<1	2
Sodium	ppm	ASTM D5185m		3	0	1
Potassium	ppm	ASTM D5185m	>20	<1	1	0
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		612	5033	9021
Particles >6µm		ASTM D7647	>1300	112	360	332
Particles >14µm		ASTM D7647	>160	13	10	9
Particles >21µm		ASTM D7647	>40	2	2	2
Particles >38µm		ASTM D7647	>10	0	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/17/14	16/14/11	20/16/10	20/16/10
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.075	0.15	0.15



14

8k

6k 41

120

100

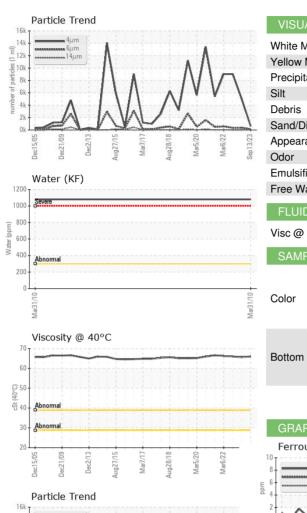
80

600 Water

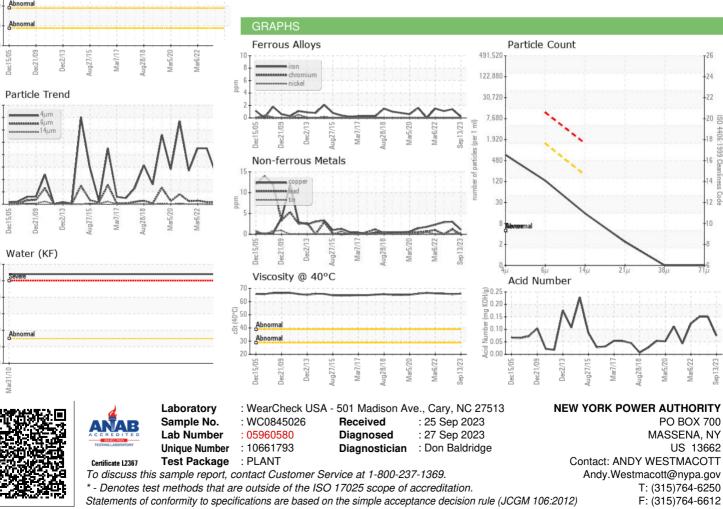
400

200

## **OIL ANALYSIS REPORT**



#### NONE NONE \*Visual NONE NONE White Metal scalar Yellow Metal NONE NONE NONE NONE scalar \*Visual Precipitate scalar \*Visual NONE NONE NONE NONE scalar \*Visual NONE NONE NONE NONE NONE NONE \*Visual NONE NONE scalar NONE Sand/Dirt scalar \*Visual NONE NONE NONE NORML Appearance \*Visual NORML NORML NORML scalar NORML NORML NORML NORML scalar \*Visual \*Visual **Emulsified Water** scalar >0.03 NEG NEG NEG Free Water scalar \*Visual NEG NEG NEG FLUID PROPERTIES 65.6 Visc @ 40°C cSt ASTM D445 66.0 66.0 SAMPLE IMAGES



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