

## **PROBLEM SUMMARY**



### Machine Id **TUNDISH TILT** Component Hydraulic System Fluid NOT GIVEN (--- GAL)

### COMPONENT CONDITION SUMMARY





### RECOMMENDATION

We advise that you replenish the water content and add per manufacturer's recommendations. We advise an early resample to confirm this situation.

### PROBLEMATIC TEST RESULTS

THOBEEN THE TEOTHEODETO								
Sample Status				ABNORMAL	ABNORMAL			
Water	%	ASTM D6304	>0.05	<u> </u>	38.7			
ppm Water	ppm	ASTM D6304	>500	<u> </u>	387000			
Particles >6µm		ASTM D7647	>1300	<u> </u>	<b>A</b> 2166			
Particles >14µm		ASTM D7647	>160	<b>A</b> 370	<u> </u>			
Particles >21µm		ASTM D7647	>40	🔺 125	<b>1</b> 24			
Particles >38µm		ASTM D7647	>10	<u> </u>	<b>1</b> 9			
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u> </u>	19/18/16			
рН	Scale 0-14	ASTM D1287		<b>^</b> 7.00	9.00			
Visc @ 40°C	cSt	ASTM D445		<u> </u>	45.8			

Customer Id: NUCMAR Sample No.: ST44101 Lab Number: 06007029 Test Package: IND 2



To manage this report scan the QR code

*To discuss the diagnosis or test data:* Doug Bogart +1 (800)237-1369 x4016 <u>dougb@wearcheckusa.com</u>

*To change component or sample information:* Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u> Vov7/23

RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description			
Service/change Fluid			?	We advise that you replenish the supplemental coolant additives (SCAs) and add per manufacturer's recommendations.			
Resample			?	We advise an early resample to confirm this situation.			

### HISTORICAL DIAGNOSIS



### 18 Oct 2022 Diag: Jonathan Hester

We recommend you service the filters on this component. Resample at the next service interval to monitor. Due to an abnormal test result it is recommended to contact Stauff Corp at (201)-444-7800 for help resolving the issue.All component wear rates are normal. There is a high amount of particulates present in the oil. The pH level of this fluid is within the acceptable limits. The pH is 9.00. The condition of the oil is acceptable for the time in service.





### **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id **TUNDISH TILT** Component **Hydraulic System** NOT GIVEN (--- GAL)

### DIAGNOSIS

#### Recommendation

We advise that you replenish the water content and add per manufacturer's recommendations. We advise an early resample to confirm this situation.

### Wear

All component wear rates are normal.

### Contamination

There is a high amount of particulates present in the oil.

### Fluid Condition

The water content is lower than normal. The oil viscosity is higher than normal. The pH is low.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		ST44101	ST39236	
Sample Date		Client Info		07 Nov 2023	18 Oct 2022	
Machine Age	hrs	Client Info		0	0	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				ABNORMAL	ABNORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	3	0	
Chromium	ppm	ASTM D5185m	>20	<1	0	
Nickel	ppm	ASTM D5185m	>20	<1	0	
Titanium	ppm	ASTM D5185m		<1	<1	
Silver	ppm	ASTM D5185m		0	<1	
Aluminum	ppm	ASTM D5185m	>20	5	0	
Lead	ppm	ASTM D5185m	>20	0	0	
Copper	ppm	ASTM D5185m	>20	<1	5	
Tin	ppm	ASTM D5185m	>20	0	0	
Vanadium	ppm	ASTM D5185m		<1	<1	
Cadmium	ppm	ASTM D5185m		<1	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		0	0	
Manganese	ppm	ASTM D5185m		0	<1	
Magnesium	ppm	ASTM D5185m		2	0	
Calcium	ppm	ASTM D5185m		4	0	
Phosphorus	ppm	ASTM D5185m		13	14	
Zinc	ppm	ASTM D5185m		0	0	
Sulfur	ppm	ASTM D5185m		0	0	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	<1	
Sodium	ppm	ASTM D5185m		25	0	
Potassium	ppm	ASTM D5185m	>20	5	0	
Water	%	ASTM D6304	>0.05	<u> </u>	38.7	
ppm Water	ppm	ASTM D6304	>500	<b>126000</b>	387000	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	3993	3976	
Particles >6µm		ASTM D7647	>1300	<u> </u>	<u> </u>	
Particles >14µm		ASTM D7647	>160	<b>A</b> 370	<b>A</b> 369	
Particles >21µm		ASTM D7647	>40	<u> </u>	<u> </u>	
Particles >38µm		ASTM D7647	>10	<u> </u>	<b>1</b> 9	
Particles >71µm		ASTM D7647	>3	2	<u> </u>	
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>19/18/16</b>	▲ 19/18/16	



# **OIL ANALYSIS REPORT**









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)

Certificate L2367

Contact/Location: TODD EBLIN - NUCMAR