

### **PROBLEM SUMMARY**

## [20249183] Machine Id HEATEC HC300G OH-1 (S/N H93056)

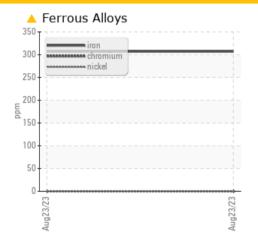
Component

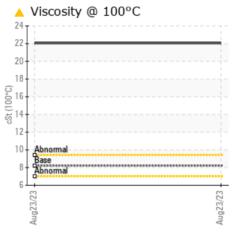
**Heat Transfer Fluid** 

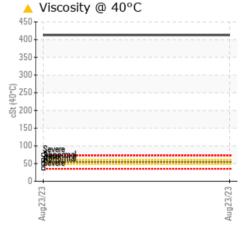
SHELL HEAT TRANSFER OIL S2 X (3000 GAL)

# Sample Rating Trend WEAR Anglots

### **COMPONENT CONDITION SUMMARY**







### RECOMMENDATION

We advise an early resample to confirm this situation.

PROBLEMATIC T	EST RE	SULTS			
Sample Status				ABNORMAL	 
Iron	ppm	ASTM D5185m	>200	<b>△</b> 307	 
Silt	scalar	*Visual	NONE	LIGHT	 
Visc @ 40°C	cSt	ASTM D445	54	<b>412.9</b>	 
Visc @ 100°C	cSt	ASTM D445	8.2	<b>22.05</b>	 

Customer Id: ERGKNO Sample No.: TO10002550 Lab Number: 05935375 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 dougb@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description			
Resample			?	We advise an early resample to confirm this situation.			

### HISTORICAL DIAGNOSIS



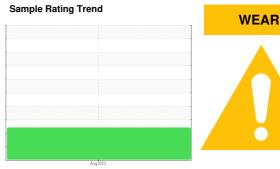
### **OIL ANALYSIS REPORT**

### Area [20249183]

HEATEC HC300G OH-1 (S/N H93056)

**Heat Transfer Fluid** 

SHELL HEAT TRANSFER OIL S2 X (3000 GAL)



### **DIAGNOSIS**

### Recommendation

We advise an early resample to confirm this situation.

#### Wear

All metal levels are normal indicating no corrosion in the system.

### Contamination

The water content is negligible. There is no indication of any contamination in the fluid. The amount and size of particulates present in the system are acceptable.

### Fluid Condition

The fluid viscosity is higher than normal. Confirm oil type. The AN level is acceptable for this fluid.

SAMPLE INFORM				Aug2023		
	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO10002550		
Sample Date		Client Info		23 Aug 2023		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	<b>4</b> 307		
Chromium	ppm	ASTM D5185m	>21	0		
Nickel	ppm	ASTM D5185m	>21	0		
Titanium	ppm	ASTM D5185m	>21	0		
Silver	ppm	ASTM D5185m	>21	0		
Aluminum	ppm	ASTM D5185m	>21	0		
Lead	ppm	ASTM D5185m	>21	0		
Copper	ppm	ASTM D5185m	>21	<1		
Tin	ppm	ASTM D5185m	>21	<1		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		3		
Magnesium	ppm	ASTM D5185m		0		
Calcium	ppm	ASTM D5185m		9		
Phosphorus	ppm	ASTM D5185m		1		
Zinc	ppm	ASTM D5185m		0		
Sulfur	ppm	ASTM D5185m		590		
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1		
Sodium	ppm	ASTM D5185m	>21	1		
Potassium	ppm	ASTM D5185m	>20	0		
Water	%	ASTM D6304	>0.0601	0.012		
ppm Water	ppm	ASTM D6304	>601	126.7		
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		2053		
Particles >6μm		ASTM D7647	>10240000	1118		
Particles >14μm		ASTM D7647	>10240000	190		
Particles >21µm		ASTM D7647	>2560000	64		
Particles >38µm		ASTM D7647	>640000	10		
i articles >50µm		ASTM D7647	>160000	1		
		AOTIVI DI OTI	0000			
Particles >71µm Oil Cleanliness		ISO 4406 (c)	>/30/30	18/17/15		
Particles >71µm	ATION					



### **OIL ANALYSIS REPORT**

