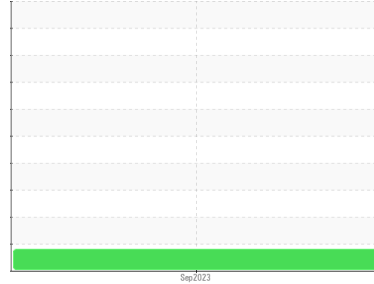


PROBLEM SUMMARY

Sample Rating Trend

SEDIMENT

Machine Id
HEATEC OIL HEATER (S/N 98178A)
 Component
Heat Transfer Fluid
 Fluid
ERGON HYGOLD L500 (--- GAL)



COMPONENT CONDITION SUMMARY

No relevant graphs to display

RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample. Please note that this is a corrected copy for data entry update for oil type.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	---	---
Silt	scalar	*Visual	NONE	▲ MODER	---	---

Customer Id: ERGMUL
Sample No.: TO10002559
Lab Number: 05965380
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
Change Filter	---	---	?	We recommend you service the filters on this component.
Alert	---	---	?	We were unable to perform a particle count due to a high concentration of particles present in this sample.
Information Required	---	---	?	Please specify the brand, type, and viscosity of the oil on your next sample.

HISTORICAL DIAGNOSIS



Machine Id
HEATEC OIL HEATER (S/N 98178A)
 Component
Heat Transfer Fluid
 Fluid
ERGON HYGOLD L500 (--- GAL)

DIAGNOSIS

▲ Recommendation
 We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample. Please note that this is a corrected copy for data entry update for oil type.

Wear
 All component wear rates are normal.

▲ Contamination
 There is a moderate amount of visible silt present in the sample.

Fluid Condition
 The AN level is acceptable for this fluid. The condition of the fluid is suitable for further service.

SAMPLE INFORMATION method limit/base current history1 history2

Sample Number	Client Info		TO10002559	---	---
Sample Date	Client Info		22 Sep 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	4	---	---
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	<1	---	---
Lead	ppm	ASTM D5185m	>21	0	---	---
Copper	ppm	ASTM D5185m	>21	0	---	---
Tin	ppm	ASTM D5185m	>21	<1	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
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		0	---	---
Magnesium	ppm	ASTM D5185m		2	---	---
Calcium	ppm	ASTM D5185m		0	---	---
Phosphorus	ppm	ASTM D5185m		1	---	---
Zinc	ppm	ASTM D5185m		0	---	---
Sulfur	ppm	ASTM D5185m	432	385	---	---

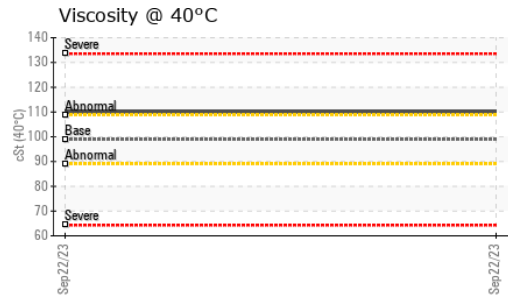
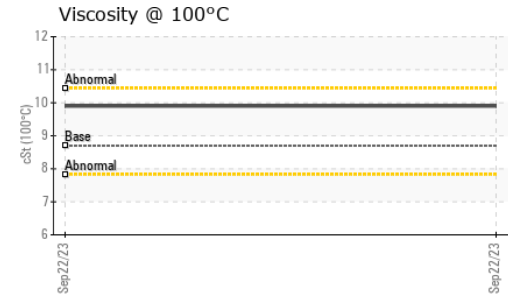
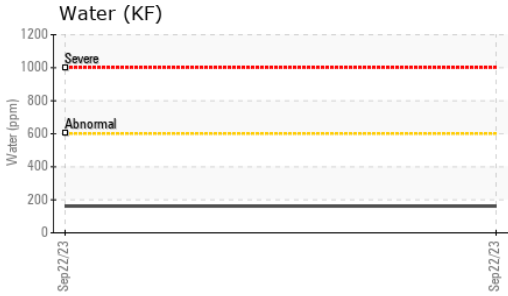
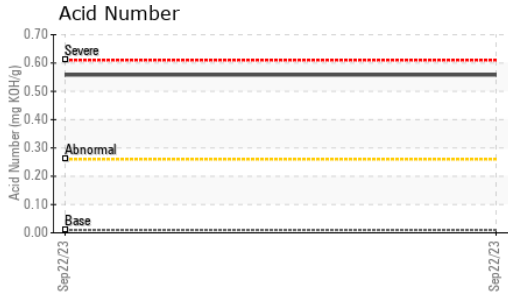
CONTAMINANTS method limit/base current history1 history2

Silicon	ppm	ASTM D5185m	>25	0	---	---
Sodium	ppm	ASTM D5185m	>21	0	---	---
Potassium	ppm	ASTM D5185m	>20	0	---	---
Water	%	ASTM D6304	>0.0601	0.016	---	---
ppm Water	ppm	ASTM D6304	>601	162.1	---	---

FLUID DEGRADATION method limit/base current history1 history2



Acid Number (AN)	mg KOH/g	ASTM D8045	0.01	0.558	---	---
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OIL ANALYSIS REPORT

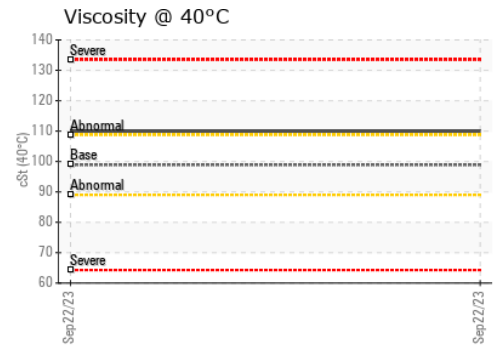


VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Precipitate	scalar	*Visual	NONE	NONE	---	---
Silt	scalar	*Visual	NONE	▲ MODER	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.0601	NEG	---	---
Free Water	scalar	*Visual		NEG	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	98.9	110	---	---
Visc @ 100°C	cSt	ASTM D445	8.7	9.9	---	---
Viscosity Index (VI)	Scale	ASTM D2270	35	55	---	---

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

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO10002559 **Received** : 29 Sep 2023
Lab Number : 05965380 **Diagnosed** : 10 Oct 2023
Unique Number : 10671931 **Diagnostician** : Doug Bogart
Test Package : IND 2 (Additional Tests: KF, KV100, PrtCount, VI)

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)

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