PROBLEM SUMMARY

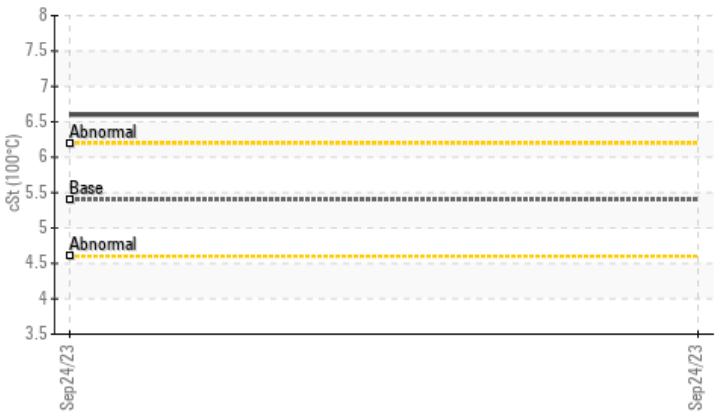
Sample Rating Trend

SEDIMENT

Machine Id
HOT OIL HEATER R/O HEATER
Component
Heat Transfer Fluid
Fluid
THERMOL PLUS HEAT TRANSFER OIL 32 (--- GAL)

COMPONENT CONDITION SUMMARY

Viscosity @ 100°C



Viscosity @ 40°C

RECOMMENDATION

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

PROBLEMATIC TEST RESULTS

Sample Status				**ABNORMAL**	---	---
Silt	scalar	*Visual	NONE	▲ **MODER**	---	---
Visc @ 40°C	cSt	ASTM D445	32	▲ **40.1**	---	---
Visc @ 100°C	cSt	ASTM D445	5.4	▲ **6.6**	---	---

Customer Id: ERGHEN
Sample No.: TO10002565
Lab Number: 05959787
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

OIL ANALYSIS REPORT

Sample Rating Trend

SEDIMENT

Machine Id
HOT OIL HEATER R/O HEATER
Component
Heat Transfer Fluid
Fluid
THERMOL PLUS HEAT TRANSFER OIL 32 (--- GAL)

DIAGNOSIS

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

Wear
All component wear rates are normal.

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

Fluid Condition
The fluid viscosity is slightly higher than normal. Confirm oil type. 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		**TO10002565**	---	---
Sample Date		Client Info		**24 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	**9**	---	---
Chromium	ppm	ASTM D5185m	>21	**0**	---	---
Nickel	ppm	ASTM D5185m	>21	**<1**	---	---
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	**0**	---	---
Tin	ppm	ASTM D5185m	>21	**<1**	---	---
Vanadium	ppm	ASTM D5185m		**0**	---	---
Cadmium	ppm	ASTM D5185m		**0**	---	---

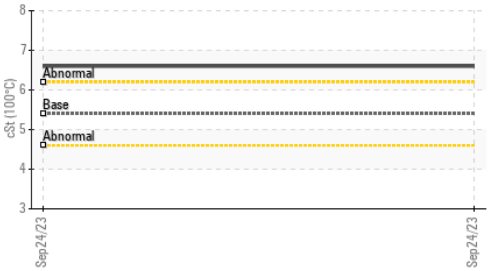
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**0**	---	---
Barium	ppm	ASTM D5185m		**0**	---	---
Molybdenum	ppm	ASTM D5185m		**0**	---	---
Manganese	ppm	ASTM D5185m		**0**	---	---
Magnesium	ppm	ASTM D5185m		**0**	---	---
Calcium	ppm	ASTM D5185m		**0**	---	---
Phosphorus	ppm	ASTM D5185m		**0**	---	---
Zinc	ppm	ASTM D5185m		**0**	---	---
Sulfur	ppm	ASTM D5185m		**346**	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	**<1**	---	---
Sodium	ppm	ASTM D5185m	>21	**0**	---	---
Potassium	ppm	ASTM D5185m	>20	**1**	---	---
Water	%	ASTM D6304	>0.0601	**0.004**	---	---
ppm Water	ppm	ASTM D6304	>601	**48.6**	---	---

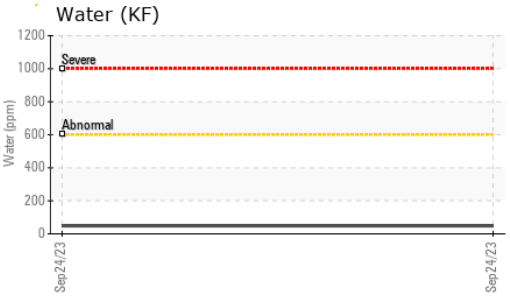
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.44**	---	---

OIL ANALYSIS REPORT

Viscosity @ 100°C

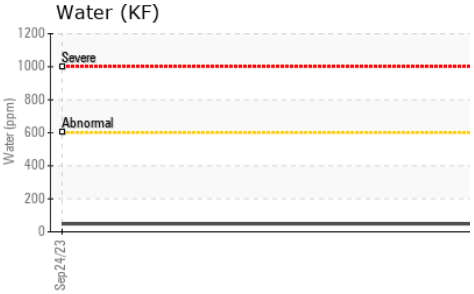


Water (KF)



Acid Number

Water (KF)



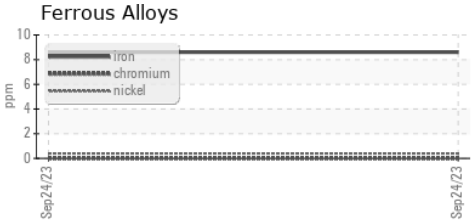
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	---	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	---	---
Precipitate	scalar	*Visual	NONE	**NONE**	---	---
Silt	scalar	*Visual	NONE	▲ **MODER**	---	---
Debris	scalar	*Visual	NONE	**NONE**	---	---
Sand/Dirt	scalar	*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	32	▲ **40.1**	---	---
Visc @ 100°C	cSt	ASTM D445	5.4	▲ **6.6**	---	---
Viscosity Index (VI)	Scale	ASTM D2270	102	**117**	---	---

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

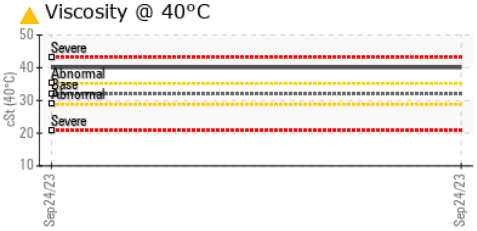
GRAPHS

Ferrous Alloys

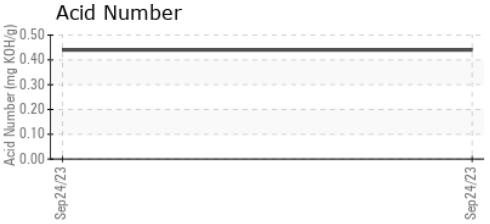


Non-ferrous Metals

Viscosity @ 40°C



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO10002565 **Received** : 25 Sep 2023
Lab Number : 05959787 **Diagnosed** : 03 Oct 2023
Unique Number : 10661000 **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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