

# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**AHC 1000-LN 1265-A14**  
Component  
**Heat Transfer Fluid**  
Fluid  
**PARATHERM HE (2000 GAL)**

## DIAGNOSIS

**Recommendation**  
Resample at the next service interval to monitor.

**Wear**  
All component wear rates are normal.

**Contamination**  
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

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

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>TO10002572</b>	---	---
Sample Date	Client Info		<b>13 Sep 2023</b>	---	---
Machine Age	hrs	Client Info	<b>0</b>	---	---
Oil Age	hrs	Client Info	<b>0</b>	---	---
Oil Changed	Client Info		<b>N/A</b>	---	---
Sample Status			<b>NORMAL</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >200	<b>17</b>	---	---
Chromium	ppm	ASTM D5185m >21	<b>0</b>	---	---
Nickel	ppm	ASTM D5185m >21	<b>0</b>	---	---
Titanium	ppm	ASTM D5185m >21	<b>&lt;1</b>	---	---
Silver	ppm	ASTM D5185m >21	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m >21	<b>3</b>	---	---
Lead	ppm	ASTM D5185m >21	<b>0</b>	---	---
Copper	ppm	ASTM D5185m >21	<b>&lt;1</b>	---	---
Tin	ppm	ASTM D5185m >21	<b>1</b>	---	---
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	---	---
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	---	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	<b>0</b>	---	---
Barium	ppm	ASTM D5185m 0	<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185m 0	<b>0</b>	---	---
Manganese	ppm	ASTM D5185m 0	<b>1</b>	---	---
Magnesium	ppm	ASTM D5185m 0	<b>&lt;1</b>	---	---
Calcium	ppm	ASTM D5185m 0	<b>3</b>	---	---
Phosphorus	ppm	ASTM D5185m 0	<b>2</b>	---	---
Zinc	ppm	ASTM D5185m 0	<b>0</b>	---	---
Sulfur	ppm	ASTM D5185m 0	<b>7</b>	---	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>&lt;1</b>	---	---
Sodium	ppm	ASTM D5185m >21	<b>4</b>	---	---
Potassium	ppm	ASTM D5185m >20	<b>1</b>	---	---
Water	%	ASTM D6304 >0.0601	<b>0.001</b>	---	---
ppm Water	ppm	ASTM D6304 >601	<b>2.0</b>	---	---

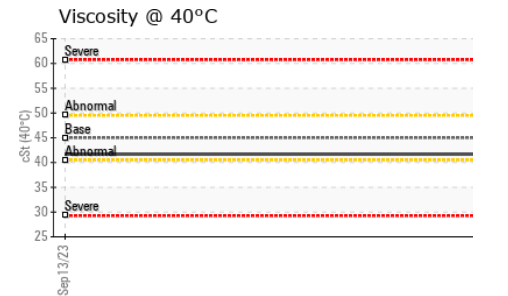
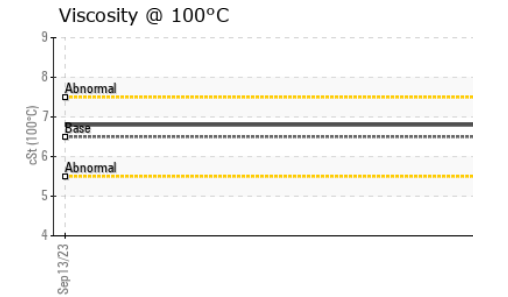
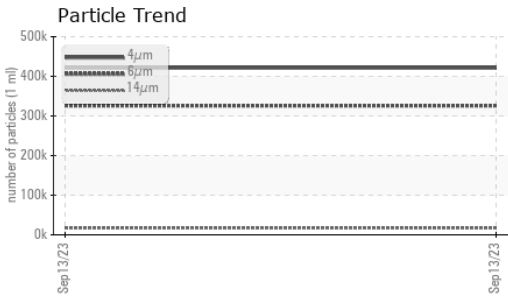
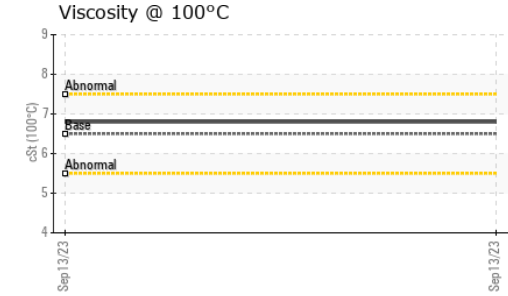
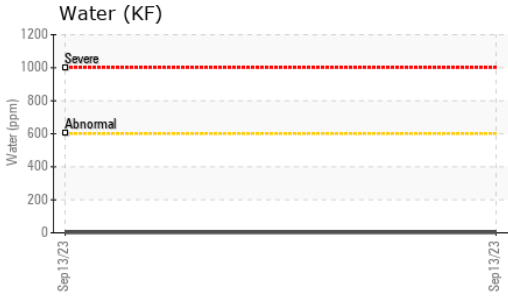
## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		<b>421279</b>	---	---
Particles >6µm	ASTM D7647	>10240000	<b>325825</b>	---	---
Particles >14µm	ASTM D7647	>10240000	<b>16813</b>	---	---
Particles >21µm	ASTM D7647	>2560000	<b>919</b>	---	---
Particles >38µm	ASTM D7647	>640000	<b>30</b>	---	---
Particles >71µm	ASTM D7647	>160000	<b>0</b>	---	---
Oil Cleanliness	ISO 4406 (c)	>--/30/30	<b>26/26/21</b>	---	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.004	<b>0.25</b>	---	---

# 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	NONE	---
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	---

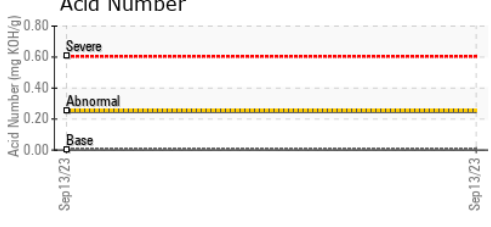
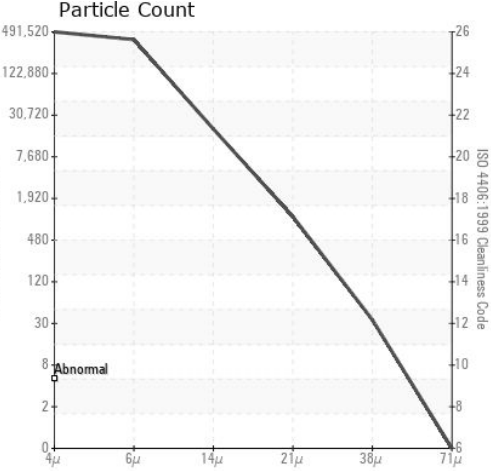
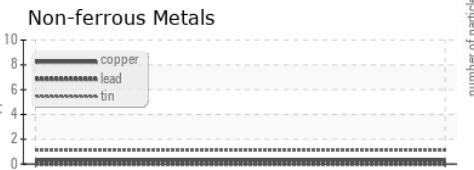
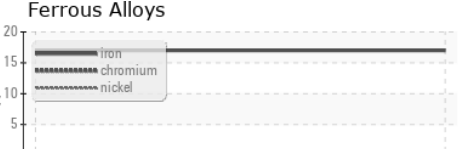
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45	41.7	---
Visc @ 100°C	cSt	ASTM D445	6.5	6.8	---
Viscosity Index (VI)	Scale	ASTM D2270	100	119	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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**Color**

	no image	no image
<b>Bottom</b>		no image

### GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TO10002572 **Received** : 26 Sep 2023  
**Lab Number** : 05961742 **Diagnosed** : 28 Sep 2023  
**Unique Number** : 10668293 **Diagnostician** : Doug Bogart  
**Test Package** : IND 2 ( Additional Tests: KF, KV100, PrtCount, VI )

**ERGO - PASCO**  
 3152 SELPH LANDING ROAD  
 PASCO, WA  
 US 99301  
 Contact: JEFF KURTH  
 Jeff.Kurth@ergon.com

Certificate L2367  
 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)