

# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**South**  
 Component  
**Heat Transfer Fluid**  
 Fluid  
**PARATHERM HE (--- 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 fluid. 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 fluid is suitable for further service.

**SAMPLE INFORMATION**    method    limit/base    current    history1    history2

Sample Number	Client Info		<b>TO10002569</b>	---	---
Sample Date	Client Info		<b>22 Sep 2023</b>	---	---
Machine Age	yrs	Client Info	<b>3</b>	---	---
Oil Age	yrs	Client Info	<b>0</b>	---	---
Oil Changed		Client Info	<b>Not Changed</b>	---	---
Sample Status			<b>NORMAL</b>	---	---

**WEAR METALS**    method    limit/base    current    history1    history2

Iron	ppm	ASTM D5185m	>200	<b>27</b>	---	---
Chromium	ppm	ASTM D5185m	>21	<b>0</b>	---	---
Nickel	ppm	ASTM D5185m	>21	<b>0</b>	---	---
Titanium	ppm	ASTM D5185m	>21	<b>0</b>	---	---
Silver	ppm	ASTM D5185m	>21	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m	>21	<b>0</b>	---	---
Lead	ppm	ASTM D5185m	>21	<b>0</b>	---	---
Copper	ppm	ASTM D5185m	>21	<b>&lt;1</b>	---	---
Tin	ppm	ASTM D5185m	>21	<b>&lt;1</b>	---	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	---	---
Cadmium	ppm	ASTM D5185m		<b>0</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>&lt;1</b>	---	---
Magnesium	ppm	ASTM D5185m	0	<b>0</b>	---	---
Calcium	ppm	ASTM D5185m	0	<b>21</b>	---	---
Phosphorus	ppm	ASTM D5185m	0	<b>3</b>	---	---
Zinc	ppm	ASTM D5185m	0	<b>2</b>	---	---
Sulfur	ppm	ASTM D5185m	0	<b>0</b>	---	---

**CONTAMINANTS**    method    limit/base    current    history1    history2

Silicon	ppm	ASTM D5185m	>25	<b>0</b>	---	---
Sodium	ppm	ASTM D5185m	>21	<b>0</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	---	---
Water	%	ASTM D6304	>0.0601	<b>0.009</b>	---	---
ppm Water	ppm	ASTM D6304	>601	<b>97.3</b>	---	---

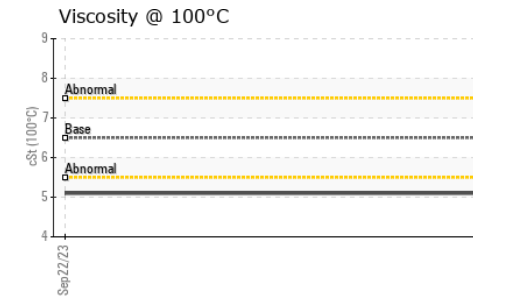
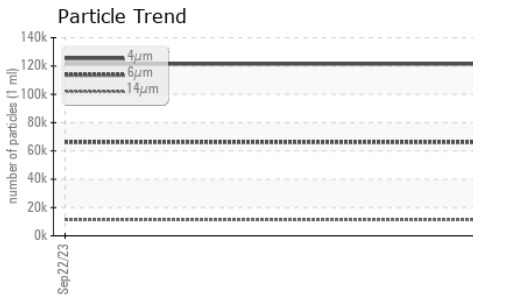
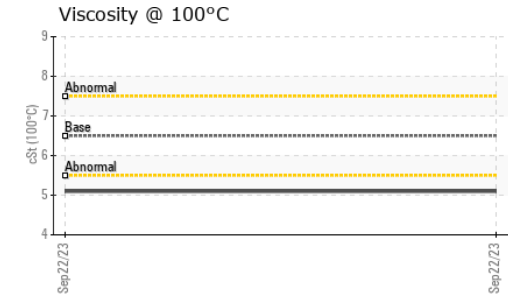
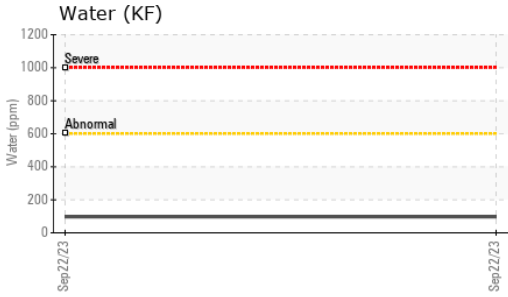
**FLUID CLEANLINESS**    method    limit/base    current    history1    history2

Particles >4µm		ASTM D7647		<b>121439</b>	---	---
Particles >6µm		ASTM D7647	>10240000	<b>66155</b>	---	---
Particles >14µm		ASTM D7647	>10240000	<b>11259</b>	---	---
Particles >21µm		ASTM D7647	>2560000	<b>3792</b>	---	---
Particles >38µm		ASTM D7647	>640000	<b>585</b>	---	---
Particles >71µm		ASTM D7647	>160000	<b>60</b>	---	---
Oil Cleanliness		ISO 4406 (c)	>--/30/30	<b>24/23/21</b>	---	---

**FLUID DEGRADATION**    method    limit/base    current    history1    history2

Acid Number (AN)	mg KOH/g	ASTM D8045	0.004	<b>0.20</b>	---	---
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# OIL ANALYSIS REPORT



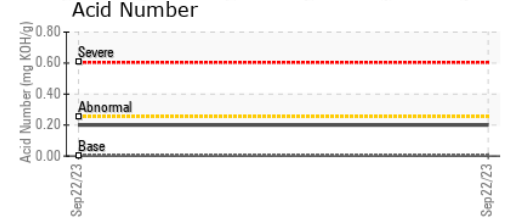
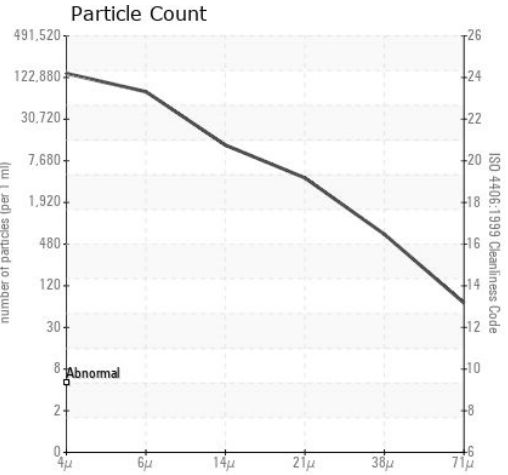
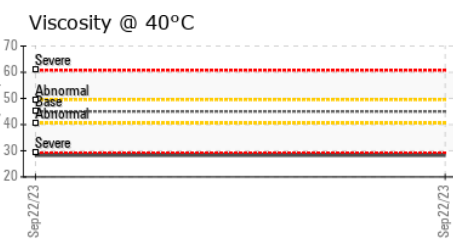
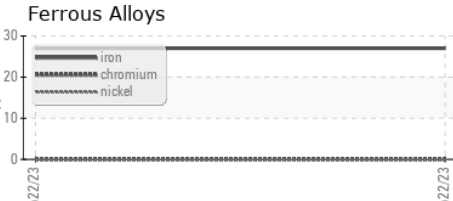
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Precipitate	scalar	*Visual	NONE	NONE	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
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	28.3	---	---
Visc @ 100°C	cSt	ASTM D445	6.5	5.1	---	---
Viscosity Index (VI)	Scale	ASTM D2270	100	108	---	---

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

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TO10002569 **Received** : 02 Oct 2023  
**Lab Number** : 05966285 **Diagnosed** : 04 Oct 2023  
**Unique Number** : 10672836 **Diagnostician** : Jonathan Hester  
**Test Package** : IND 2 ( Additional Tests: KF, KV100, PrtCount, VI )

**ERGON - SAGINAW**  
 600 MINTON ROAD  
 SAGINAW, TX  
 US 76179  
 Contact: NATHAN SWEARINGEN  
 Nathan.Swearingen@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)