

# PROBLEM SUMMARY

Sample Rating Trend

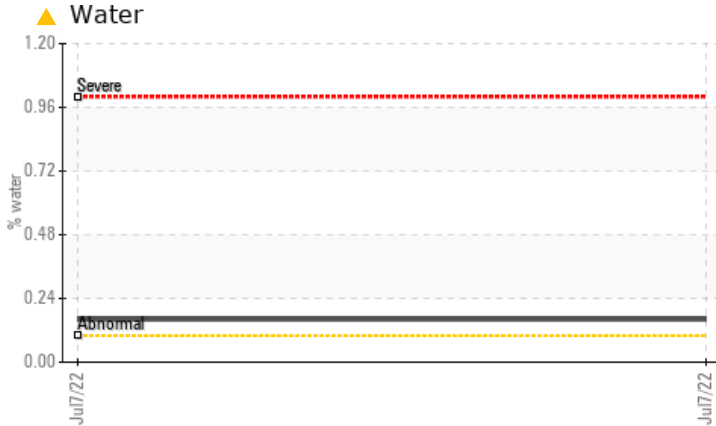
**WATER**



Area  
**MELT SHOP**  
 Machine Id  
**ECOSAFE S3 DU 46 TOTE 2**  
 Component  
**New (Unused) Oil**  
 Fluid  
**{not provided} (--- QTS)**



## COMPONENT CONDITION SUMMARY



## RECOMMENDATION

This is a baseline read-out on the submitted sample.

## PROBLEMATIC TEST RESULTS

Sample Status			MARGINAL	---	---
Water	%	ASTM D6304	▲ 0.161	---	---
ppm Water	ppm	ASTM D6304	▲ 1612.3	---	---

Customer Id: OUTCALAL  
 Sample No.: RP0028657  
 Lab Number: 05586976  
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Jonathan Hester +1 919-379-4092 x4092  
[jhester@wearcheckusa.com](mailto:jhester@wearcheckusa.com)

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

## RECOMMENDED ACTIONS

*There are no recommended actions for this sample.*

## HISTORICAL DIAGNOSIS



# OIL ANALYSIS REPORT

Sample Rating Trend

**WATER**



Area  
**MELT SHOP**  
 Machine Id  
**ECOSAFE S3 DU 46 TOTE 2**  
 Component  
**New (Unused) Oil**  
 Fluid  
**{not provided} (--- QTS)**



## DIAGNOSIS

- ▲ **Recommendation**  
This is a baseline read-out on the submitted sample.
- ▲ **Contamination**  
There is a trace of moisture present in the oil.

## SAMPLE INFORMATION

	method	limit/base	current	history 1	history 2
Sample Number	Client Info		<b>RP0028657</b>	---	---
Sample Date	Client Info		<b>07 Jul 2022</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>MARGINAL</b>	---	---

## WEAR METALS

	method	limit/base	current	history 1	history 2
PQ	ASTM D8184		<b>30</b>	---	---
Iron	ppm	ASTM D5185m >5	<b>&lt;1</b>	---	---
Chromium	ppm	ASTM D5185m >5	<b>0</b>	---	---
Nickel	ppm	ASTM D5185m >5	<b>&lt;1</b>	---	---
Titanium	ppm	ASTM D5185m	<b>0</b>	---	---
Silver	ppm	ASTM D5185m >5	<b>&lt;1</b>	---	---
Aluminum	ppm	ASTM D5185m >5	<b>0</b>	---	---
Lead	ppm	ASTM D5185m >5	<b>0</b>	---	---
Copper	ppm	ASTM D5185m >5	<b>&lt;1</b>	---	---
Tin	ppm	ASTM D5185m >5	<b>&lt;1</b>	---	---
Vanadium	ppm	ASTM D5185m	<b>0</b>	---	---
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	---	---

## ADDITIVES

	method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	<b>5</b>	---	---
Barium	ppm	ASTM D5185m	<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185m	<b>0</b>	---	---
Manganese	ppm	ASTM D5185m	<b>0</b>	---	---
Magnesium	ppm	ASTM D5185m	<b>0</b>	---	---
Calcium	ppm	ASTM D5185m	<b>0</b>	---	---
Phosphorus	ppm	ASTM D5185m	<b>598</b>	---	---
Zinc	ppm	ASTM D5185m	<b>0</b>	---	---

## CONTAMINANTS

	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m >15	<b>&lt;1</b>	---	---
Sodium	ppm	ASTM D5185m	<b>0</b>	---	---
Potassium	ppm	ASTM D5185m >20	<b>&lt;1</b>	---	---
Water	%	ASTM D6304	<b>▲ 0.161</b>	---	---
ppm Water	ppm	ASTM D6304	<b>▲ 1612.3</b>	---	---

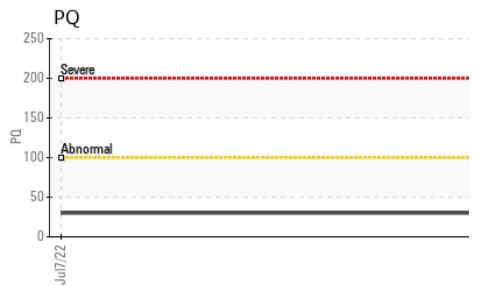
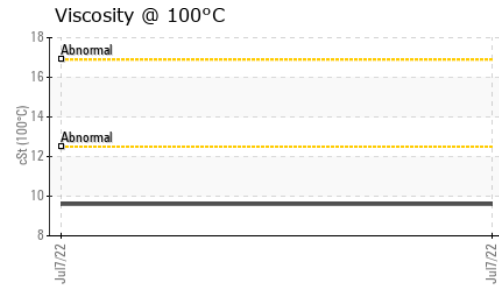
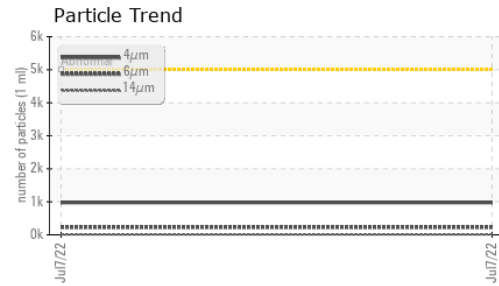
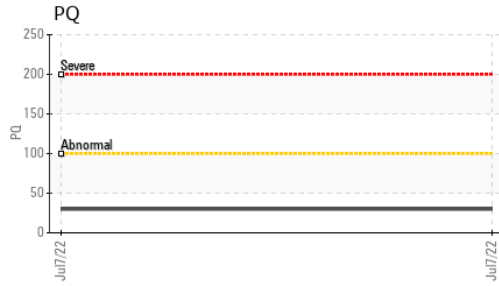
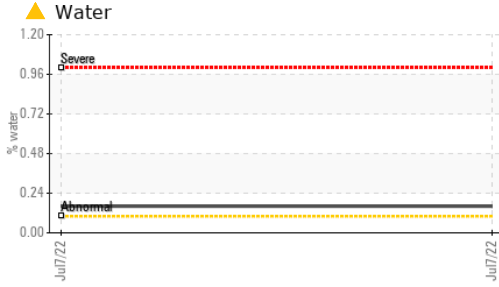
## FLUID CLEANLINESS

	method	limit/base	current	history 1	history 2
Particles >4µm	ASTM D7647	>5000	<b>976</b>	---	---
Particles >6µm	ASTM D7647	>1300	<b>230</b>	---	---
Particles >14µm	ASTM D7647	>160	<b>14</b>	---	---
Particles >21µm	ASTM D7647	>40	<b>3</b>	---	---
Particles >38µm	ASTM D7647	>10	<b>0</b>	---	---
Particles >71µm	ASTM D7647	>3	<b>0</b>	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>17/15/11</b>	---	---

## FLUID DEGRADATION

	method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.45</b>	---	---

# OIL ANALYSIS REPORT

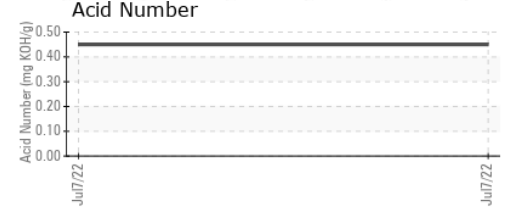
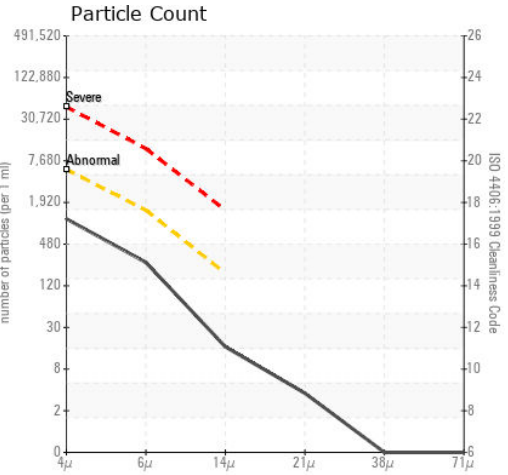
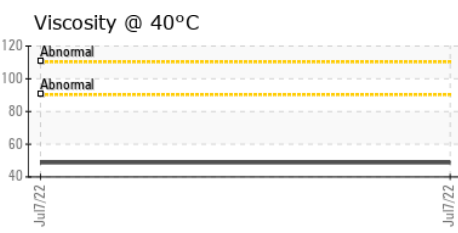
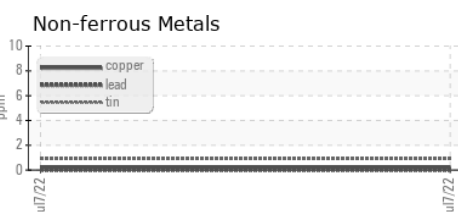
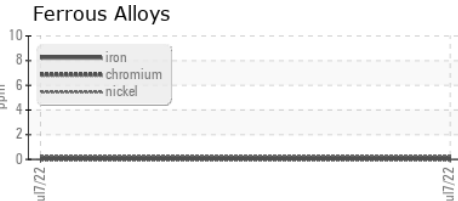


VISUAL	method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	NEG	---	---
Free Water	scalar	*Visual	NEG	---	---

FLUID PROPERTIES	method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	48.73	---	---
Visc @ 100°C	cSt	ASTM D445	9.6	---	---
Viscosity Index (VI)	Scale	ASTM D2270	186	---	---

SAMPLE IMAGES	method	limit/base	current	history 1	history 2
Color				no image	no image
Bottom				no image	no image

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RP0028657 **Received** : 08 Jul 2022  
**Lab Number** : 05586976 **Diagnosed** : 12 Jul 2022  
**Unique Number** : 10046423 **Diagnostician** : Jonathan Hester

**OUTOKUMPU STAINLESS USA**  
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 CALVERT, AL  
 US 36513  
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**Test Package** : IND 2 ( Additional Tests: FT-IR, ICP-NewOil, KV100, PQ, 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)