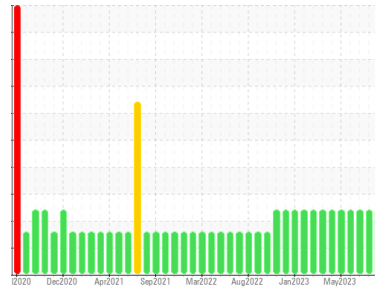


# PROBLEM SUMMARY

Area  
**CRM54**  
 Machine Id  
**CRM 54 CLEAN OIL TANK (S/N 16-2200-1026)**  
 Component  
**Tank New (Unused) Oil**  
 Fluid  
**NOT GIVEN (--- QTS)**

Sample Rating Trend

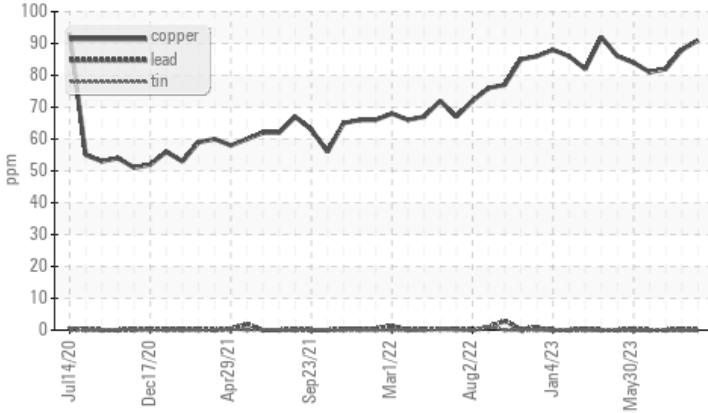


**WEAR**

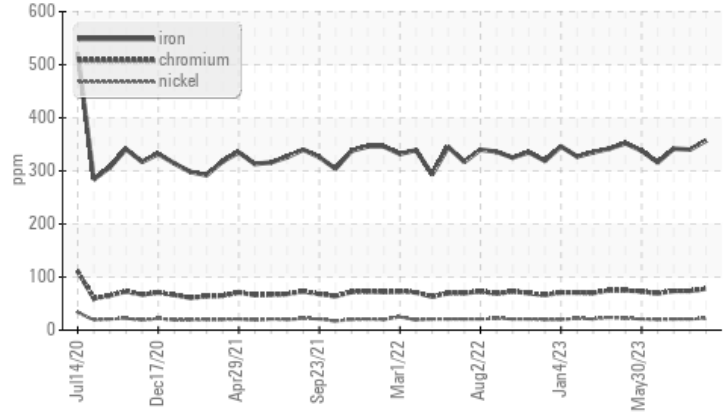


## COMPONENT CONDITION SUMMARY

▲ Non-ferrous Metals



▲ Ferrous Alloys



## RECOMMENDATION

No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

## PROBLEMATIC TEST RESULTS

Sample Status				ATTENTION	ATTENTION	ATTENTION
Iron	ppm	ASTM D5185m	>5	▲ 357	▲ 340	▲ 342
Chromium	ppm	ASTM D5185m	>5	▲ 78	▲ 74	▲ 74
Copper	ppm	ASTM D5185m	>5	▲ 91	▲ 88	▲ 82

Customer Id: OUTCALAL  
 Sample No.: RP0039135  
 Lab Number: 06011204  
 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

Action	Status	Date	Done By	Description
Resample	---	---	?	We recommend an early resample to monitor this condition.

## HISTORICAL DIAGNOSIS

### 27 Sep 2023 Diag: Jonathan Hester

WEAR



No corrective action is recommended at this time. We recommend an early resample to monitor this condition. Bearing and/or gear wear is indicated. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



### 26 Jul 2023 Diag: Jonathan Hester

WEAR



No corrective action is recommended at this time. We recommend an early resample to monitor this condition. Bearing and/or gear wear is indicated. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



### 28 Jun 2023 Diag: Jonathan Hester

WEAR



No corrective action is recommended at this time. We recommend an early resample to monitor this condition. Bearing and/or gear wear is indicated. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

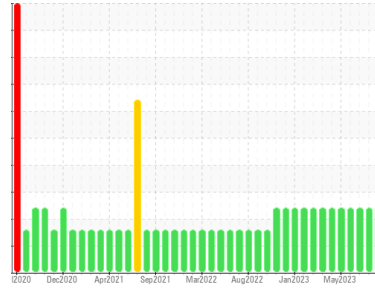
view report





# OIL ANALYSIS REPORT

Sample Rating Trend



**WEAR**



Area  
**CRM54**  
 Machine Id  
**CRM 54 CLEAN OIL TANK (S/N 16-2200-1026)**  
 Component  
**Tank New (Unused) Oil**  
 Fluid  
**NOT GIVEN (--- QTS)**

**DIAGNOSIS**

**Recommendation**

No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

**Wear**

Bearing and/or gear wear is indicated.

**Contamination**

There is no indication of any contamination in the oil.

**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>RP0039135</b>	RP0035350	RP0035476
Sample Date	Client Info		<b>16 Nov 2023</b>	27 Sep 2023	26 Jul 2023
Machine Age	hrs	Client Info	<b>0</b>	0	0
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>N/A</b>	N/A	N/A
Sample Status			<b>ATTENTION</b>	ATTENTION	ATTENTION

**WEAR METALS**

	method	limit/base	current	history1	history2
PQ	ASTM D8184		<b>18</b>	17	16
Iron	ppm	ASTM D5185m >5	<b>▲ 357</b>	▲ 340	▲ 342
Chromium	ppm	ASTM D5185m >5	<b>▲ 78</b>	▲ 74	▲ 74
Nickel	ppm	ASTM D5185m >5	<b>22</b>	21	21
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m >5	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >5	<b>1</b>	5	<1
Lead	ppm	ASTM D5185m >5	<b>0</b>	<1	0
Copper	ppm	ASTM D5185m >5	<b>▲ 91</b>	▲ 88	▲ 82
Tin	ppm	ASTM D5185m >5	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	<1
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

**ADDITIVES**

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>0</b>	0	0
Barium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>2</b>	1	2
Manganese	ppm	ASTM D5185m	<b>21</b>	20	21
Magnesium	ppm	ASTM D5185m	<b>&lt;1</b>	4	<1
Calcium	ppm	ASTM D5185m	<b>14</b>	4	7
Phosphorus	ppm	ASTM D5185m	<b>1089</b>	1130	1158
Zinc	ppm	ASTM D5185m	<b>35</b>	33	36

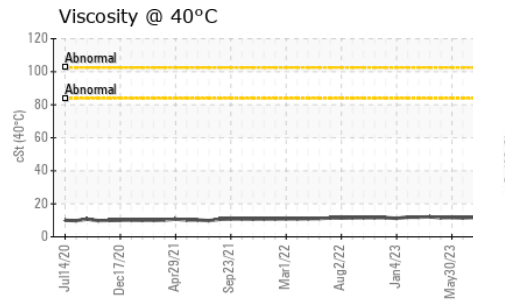
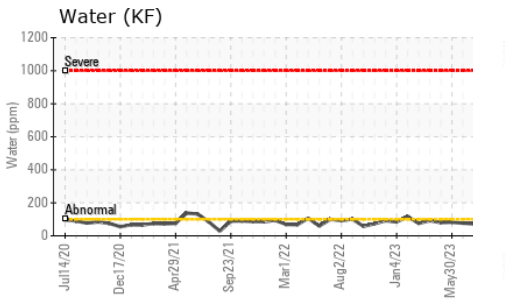
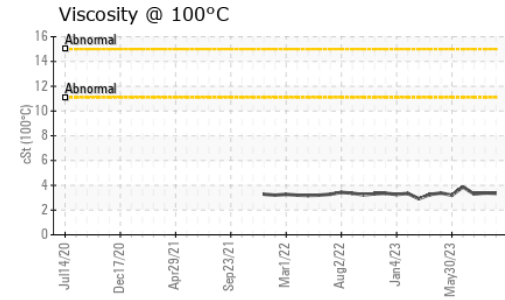
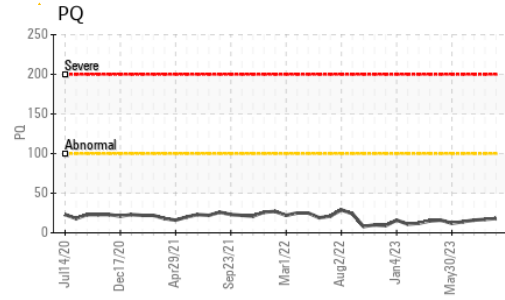
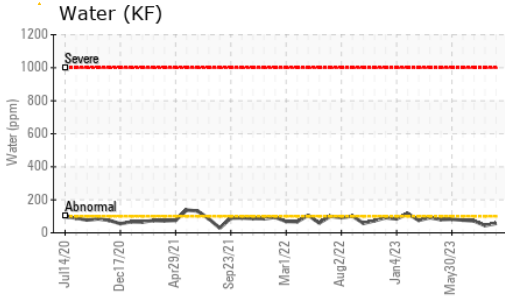
**CONTAMINANTS**

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	<b>5</b>	4	5
Sodium	ppm	ASTM D5185m	<b>0</b>	1	<1
Potassium	ppm	ASTM D5185m >20	<b>2</b>	0	1
Water	%	ASTM D6304	<b>0.005</b>	0.004	0.007
ppm Water	ppm	ASTM D6304	<b>57.0</b>	44.0	71.9

**FLUID DEGRADATION**

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.202</b>	0.204	0.213

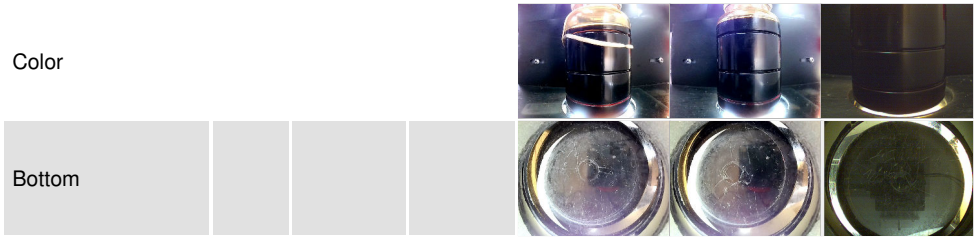
# OIL ANALYSIS REPORT



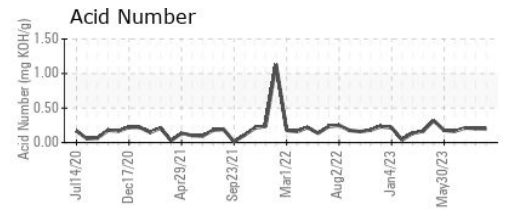
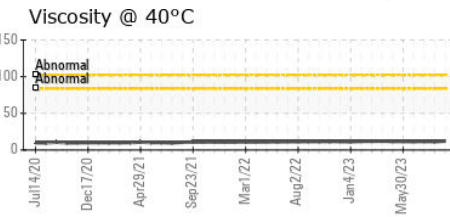
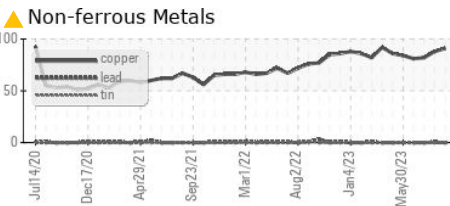
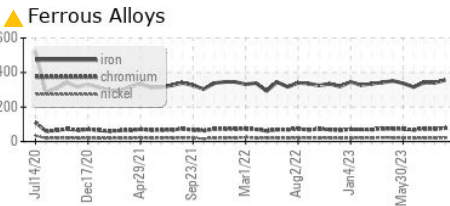
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	12.2	11.4	11.7
Visc @ 100°C	cSt	ASTM D445	3.35	3.38	3.3
Viscosity Index (VI)	Scale	ASTM D2270	156	188	163

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RP0039135 **Received** : 17 Nov 2023  
**Lab Number** : 06011204 **Diagnosed** : 29 Nov 2023  
**Unique Number** : 10750348 **Diagnostician** : Jonathan Hester

**OUTOKUMPU STAINLESS USA**  
 HWY 43 N  
 CALVERT, AL  
 US 36513  
 Contact: MARIO JOHNSON  
 Mario.johnson@outokumpu.com  
 T: (251)321-4105  
 F: x:

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)