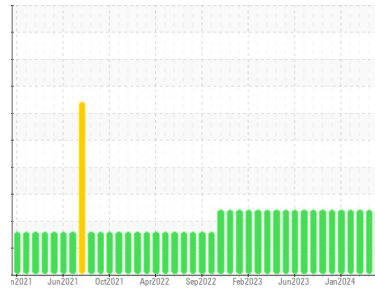




# OIL ANALYSIS REPORT

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 provided} (--- 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>RP0042069</b>	RP0042177	RP0042601
Sample Date	Client Info		<b>09 May 2024</b>	26 Mar 2024	29 Feb 2024
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>15</b>	16	21
Iron	ppm	ASTM D5185m >5	<b>370</b>	321	346
Chromium	ppm	ASTM D5185m >5	<b>81</b>	74	78
Nickel	ppm	ASTM D5185m >5	<b>23</b>	20	22
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>0</b>	<1	0
Lead	ppm	ASTM D5185m >5	<b>&lt;1</b>	<1	0
Copper	ppm	ASTM D5185m >5	<b>88</b>	86	85
Tin	ppm	ASTM D5185m >5	<b>0</b>	1	0
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	0
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>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>2</b>	2	1
Manganese	ppm	ASTM D5185m	<b>22</b>	20	21
Magnesium	ppm	ASTM D5185m	<b>0</b>	0	0
Calcium	ppm	ASTM D5185m	<b>8</b>	7	20
Phosphorus	ppm	ASTM D5185m	<b>1380</b>	1248	1441
Zinc	ppm	ASTM D5185m	<b>45</b>	37	43

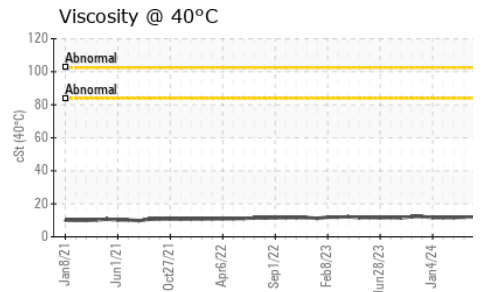
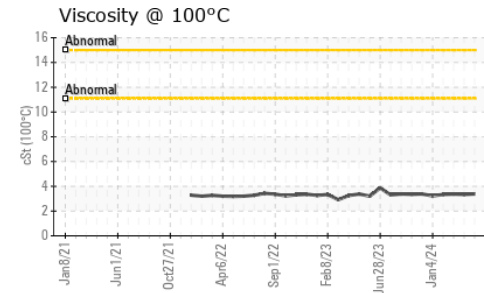
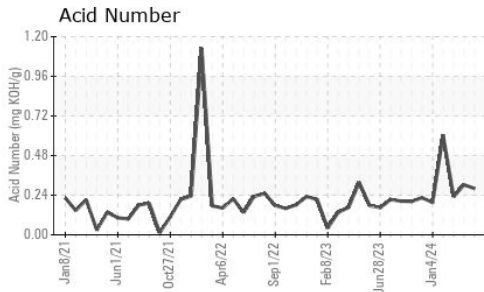
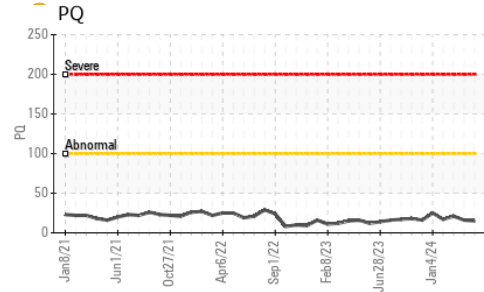
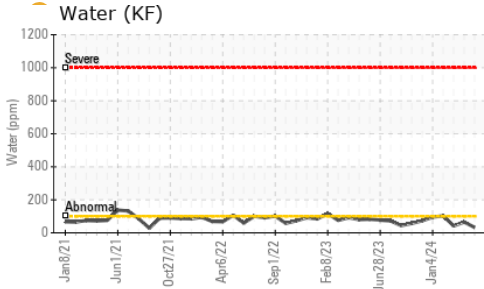
### CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	<b>6</b>	4	5
Sodium	ppm	ASTM D5185m	<b>2</b>	3	2
Potassium	ppm	ASTM D5185m >20	<b>&lt;1</b>	<1	<1
Water	%	ASTM D6304	<b>0.003</b>	0.006	0.004
ppm Water	ppm	ASTM D6304	<b>33</b>	65	42

### FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.28</b>	0.303	0.231

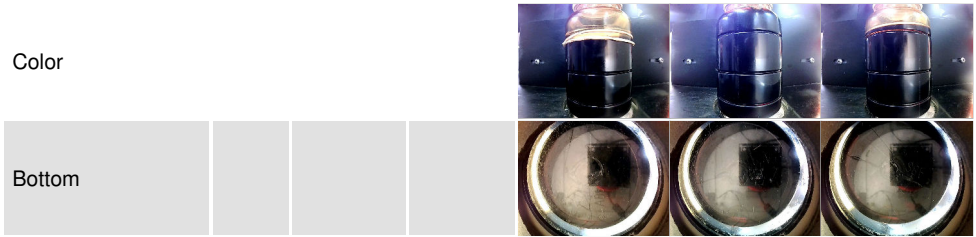
# OIL ANALYSIS REPORT



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	12.00	11.9	11.6
Visc @ 100°C	cSt	ASTM D445	3.38	3.34	3.37
Viscosity Index (VI)	Scale	ASTM D2270	167	163	179

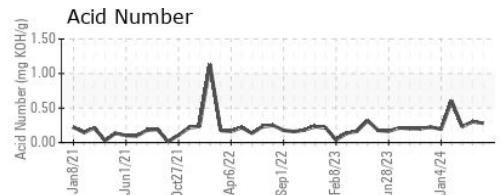
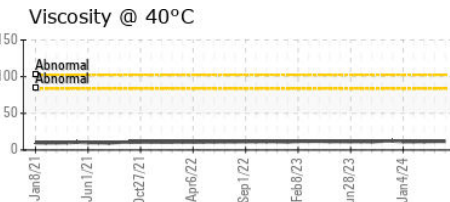
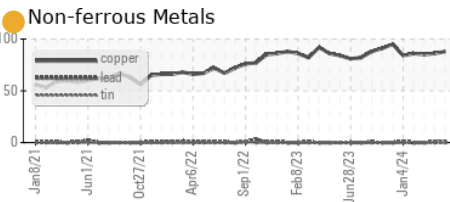
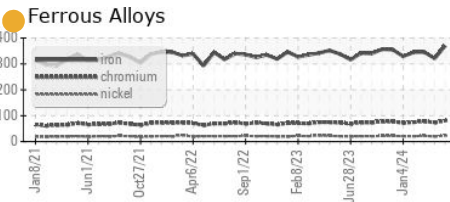
**SAMPLE IMAGES**



Color

Bottom

**GRAPHS**



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RP0042069  
**Lab Number** : 06176643  
**Unique Number** : 11022696  
**Test Package** : IND 2 ( Additional Tests: FT-IR, ICP-NewOil, KV100, PQ, PrtCount, VI )  
**Received** : 10 May 2024  
**Tested** : 14 May 2024  
**Diagnosed** : 14 May 2024 - Angela Borella

**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)