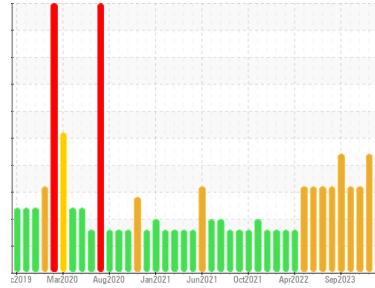




# OIL ANALYSIS REPORT

Sample Rating Trend



**WEAR**



Area  
**CRM64**  
 Machine Id  
**CRM 64 DIRTY OIL TANK (S/N 16-2300-1025)**  
 Component  
**Tank Bulk Fluid Tank**  
 Fluid  
**{not provided} (59438 GAL)**

**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**

Moderate concentration of visible dirt/debris present 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>RP0039263</b>	RP0038381	RP0034996
Sample Date	Client Info		<b>29 Jan 2024</b>	04 Jan 2024	05 Dec 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>ABNORMAL</b>	ABNORMAL	ATTENTION

**WEAR METALS**

	method	limit/base	current	history1	history2
PQ	ASTM D8184		<b>22</b>	25	25
Iron	ppm	ASTM D5185m	<b>▲ 367</b>	▲ 351	▲ 363
Chromium	ppm	ASTM D5185m	<b>▲ 86</b>	▲ 81	▲ 82
Nickel	ppm	ASTM D5185m	<b>▲ 24</b>	▲ 24	▲ 24
Titanium	ppm	ASTM D5185m	<b>0</b>	0	0
Silver	ppm	ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	<b>2</b>	0	2
Lead	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185m	<b>▲ 95</b>	▲ 91	▲ 97
Tin	ppm	ASTM D5185m	<b>0</b>	<1	0
Vanadium	ppm	ASTM D5185m	<b>0</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>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>2</b>	2	2
Manganese	ppm	ASTM D5185m	<b>19</b>	18	19
Magnesium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Calcium	ppm	ASTM D5185m	<b>10</b>	9	11
Phosphorus	ppm	ASTM D5185m	<b>1025</b>	1019	957
Zinc	ppm	ASTM D5185m	<b>50</b>	46	37

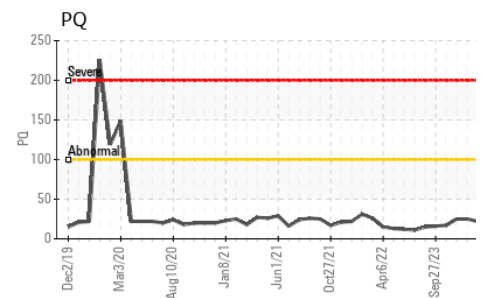
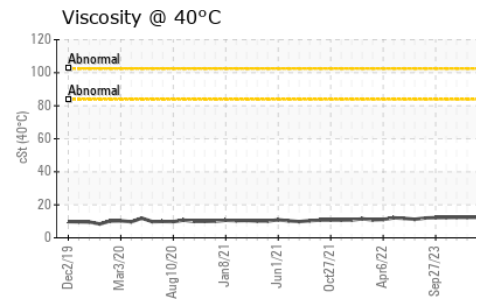
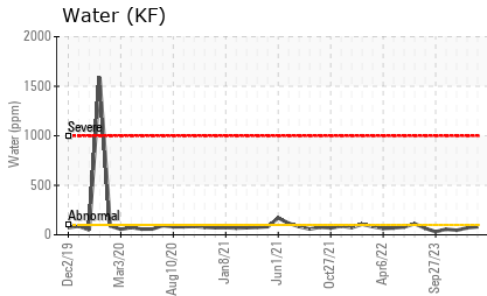
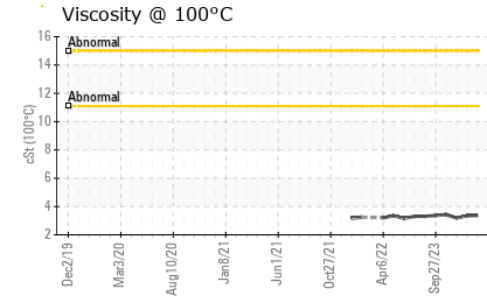
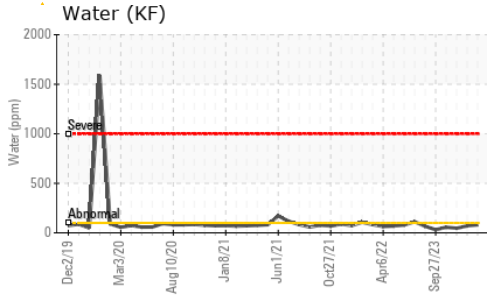
**CONTAMINANTS**

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<b>4</b>	3	3
Sodium	ppm	ASTM D5185m	<b>0</b>	2	0
Potassium	ppm	ASTM D5185m >20	<b>2</b>	<1	2
Water	%	ASTM D6304	<b>0.008</b>	0.007	0.004
ppm Water	ppm	ASTM D6304	<b>81</b>	70	46

**FLUID DEGRADATION**

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.139</b>	0.202	0.218

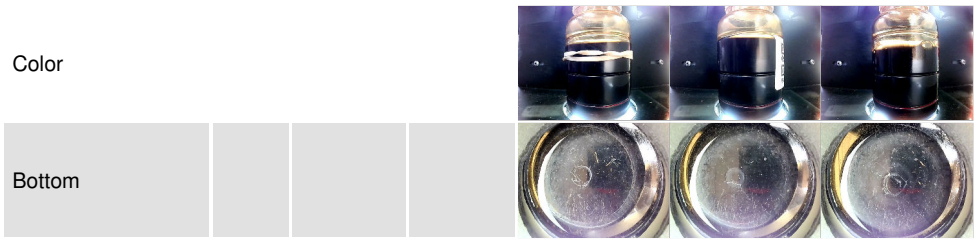
# OIL ANALYSIS REPORT



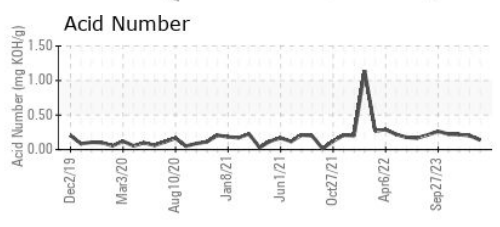
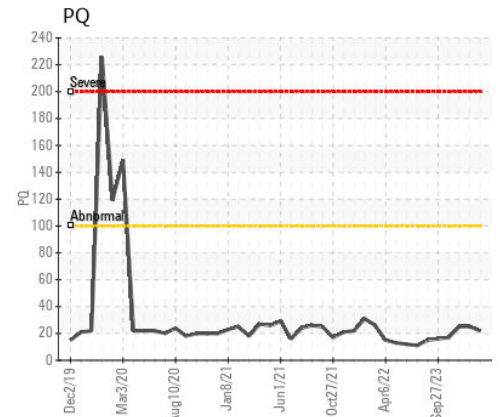
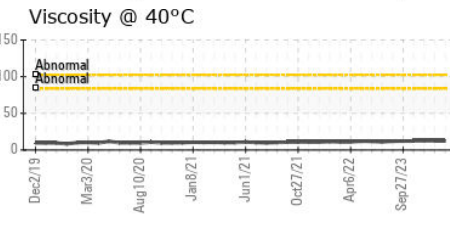
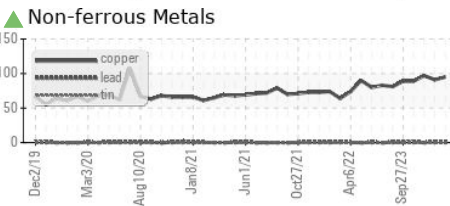
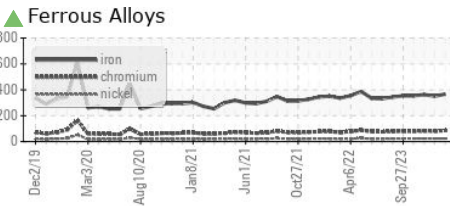
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	▲ MODER	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	▲ MODER	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	12.4	12.4	12.4
Visc @ 100°C	cSt	ASTM D445	3.37	3.35	3.19
Viscosity Index (VI)	Scale	ASTM D2270	153	150	124

## SAMPLE IMAGES



## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RP0039263 **Received** : 31 Jan 2024  
**Lab Number** : 06076241 **Diagnosed** : 05 Feb 2024  
**Unique Number** : 10858332 **Diagnostician** : Jonathan Hester  
**Test Package** : IND 2 ( Additional Tests: KV100, PQ, VI )

**OUTOKUMPU STAINLESS USA**  
 HWY 43 N  
 CALVERT, AL  
 US 36513  
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 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)