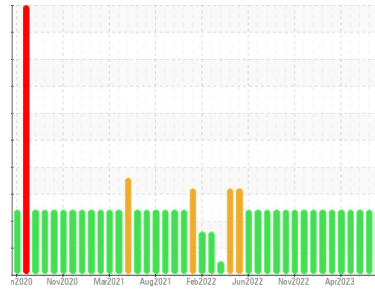


PROBLEM SUMMARY

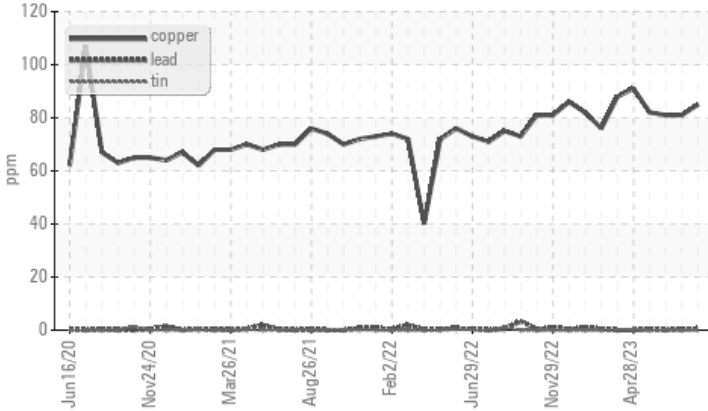
Area
CRM64
 Machine Id
CRM 64 CLEAN OIL TANK - USED FILTERED (S/N 16-2300-1026)
 Component
Tank Bulk Fluid Tank
 Fluid
NOT GIVEN (59438 GAL)

Sample Rating Trend

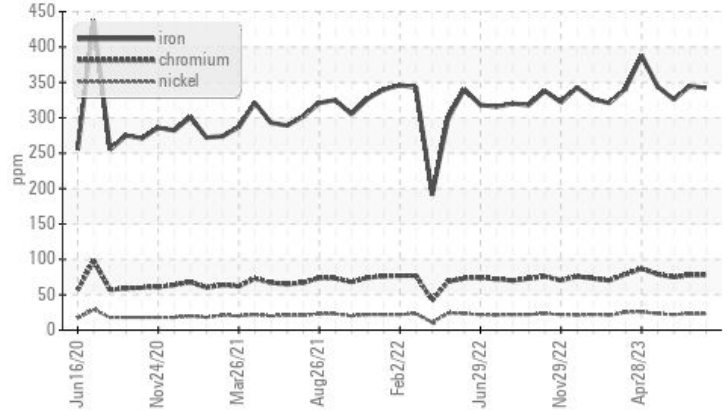


COMPONENT CONDITION SUMMARY

▲ 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	▲ 342	▲ 345	▲ 326
Chromium	ppm	ASTM D5185m	▲ 78	▲ 78	▲ 75
Copper	ppm	ASTM D5185m	▲ 85	▲ 81	▲ 81

Customer Id: OUTCALAL
 Sample No.: RP0035343
 Lab Number: 05964918
 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

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

RECOMMENDED ACTIONS

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

HISTORICAL DIAGNOSIS

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](#)



30 May 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.

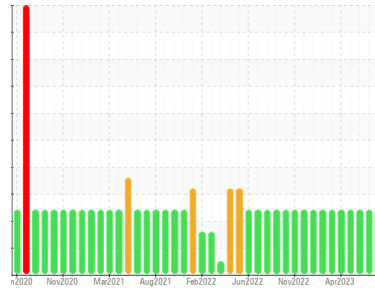
[view report](#)





OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Area
CRM64
 Machine Id
CRM 64 CLEAN OIL TANK - USED FILTERED (S/N 16-2300-1026)
 Component
Tank Bulk Fluid Tank
 Fluid
NOT GIVEN (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
 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	RP0035343	RP0035479	RP0035360
Sample Date	Client Info	27 Sep 2023	26 Jul 2023	28 Jun 2023
Machine Age	hrs	0	0	0
Oil Age	hrs	0	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		ATTENTION	ATTENTION	ATTENTION

WEAR METALS

method	limit/base	current	history1	history2
PQ	ASTM D8184	14	14	13
Iron	ppm	▲ 342	▲ 345	▲ 326
Chromium	ppm	▲ 78	▲ 78	▲ 75
Nickel	ppm	23	23	22
Titanium	ppm	0	0	0
Silver	ppm	0	0	0
Aluminum	ppm	5	<1	<1
Lead	ppm	<1	<1	0
Copper	ppm	▲ 85	▲ 81	▲ 81
Tin	ppm	0	0	0
Vanadium	ppm	0	<1	0
Cadmium	ppm	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	0	0	0
Barium	ppm	0	0	0
Molybdenum	ppm	2	2	1
Manganese	ppm	17	18	16
Magnesium	ppm	4	<1	4
Calcium	ppm	7	10	7
Phosphorus	ppm	966	1009	977
Zinc	ppm	45	50	44

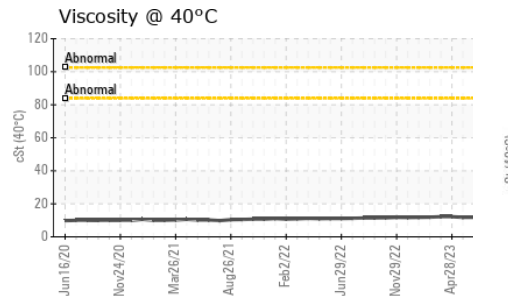
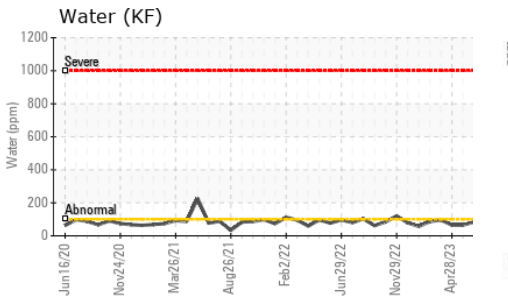
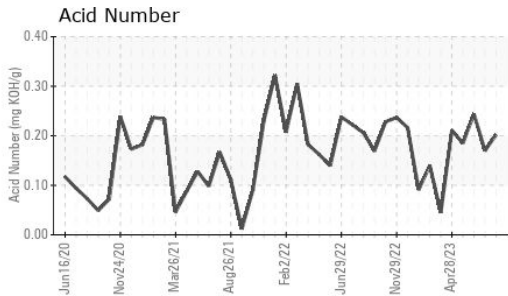
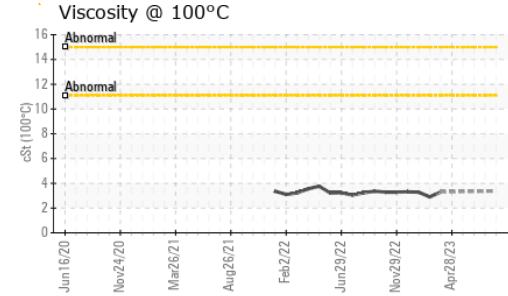
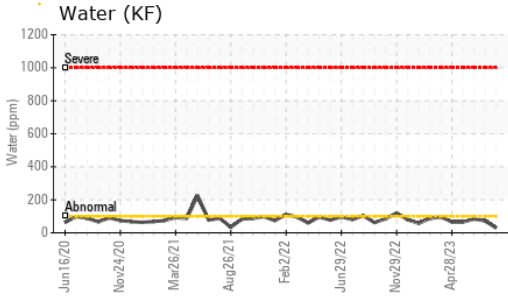
CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	3	3	2
Sodium	ppm	2	1	2
Potassium	ppm	0	2	1
Water	%	0.003	0.007	0.008
ppm Water	ppm	29.8	72.2	84.1

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	0.202	0.17	0.244

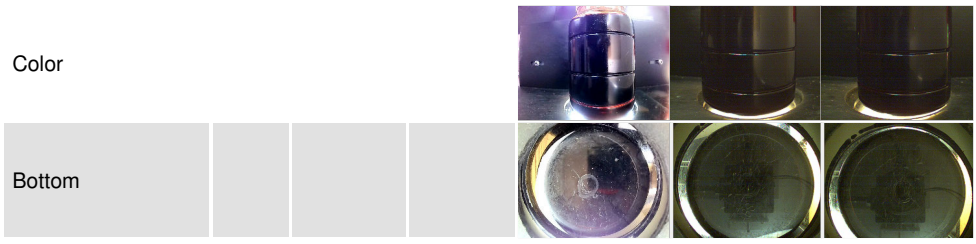
OIL ANALYSIS REPORT



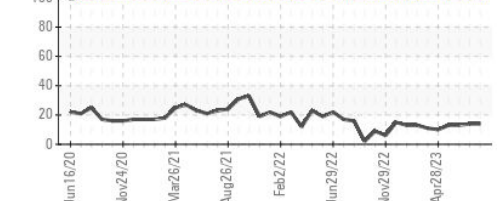
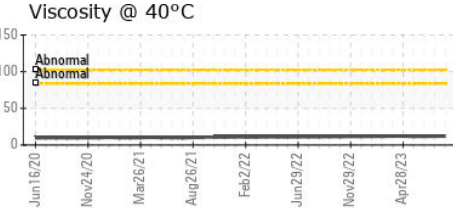
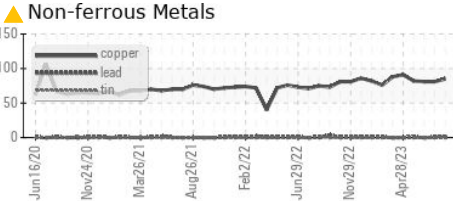
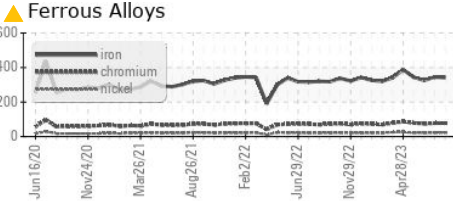
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	12.00	11.8
Visc @ 100°C	cSt	ASTM D445	3.38	---	---
Viscosity Index (VI)	Scale	ASTM D2270	161	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP0035343 **Received** : 29 Sep 2023
Lab Number : 05964918 **Diagnosed** : 03 Oct 2023
Unique Number : 10671469 **Diagnostician** : Jonathan Hester
Test Package : IND 2 (Additional Tests: KV100, PQ, VI)

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

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)