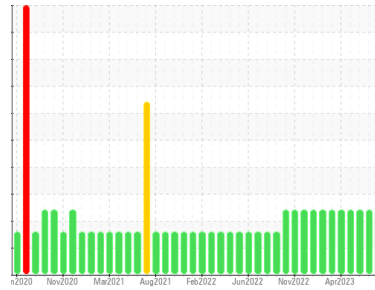


PROBLEM SUMMARY

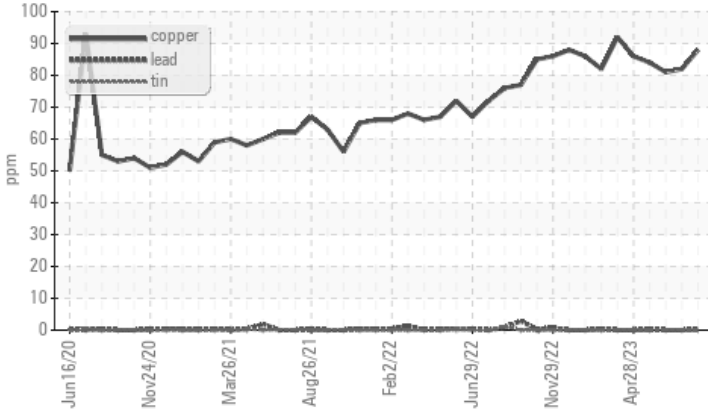
Area
CRM54
 Machine Id
CRM 54 CLEAN OIL TANK (S/N 16-2200-1026)
 Component
Tank New (Unused) Oil
 Fluid
NOT GIVEN (--- QTS)

Sample Rating Trend

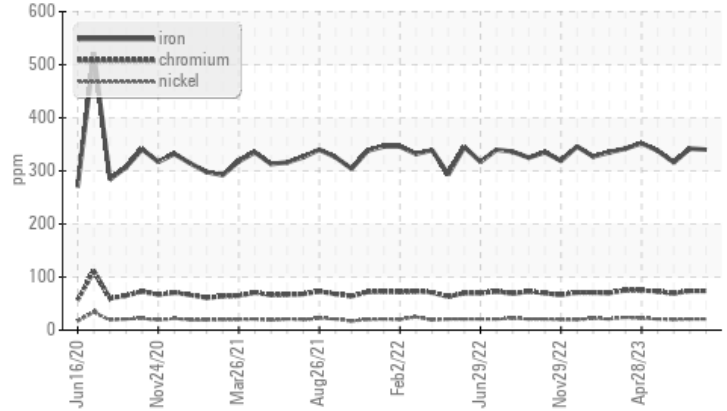


COMPONENT CONDITION SUMMARY

▲ 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	▲ 340	▲ 342	▲ 316
Chromium	ppm	ASTM D5185m	>5	▲ 74	▲ 74	▲ 69
Copper	ppm	ASTM D5185m	>5	▲ 88	▲ 82	▲ 81

Customer Id: OUTCALAL
 Sample No.: RP0035350
 Lab Number: 05964920
 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.

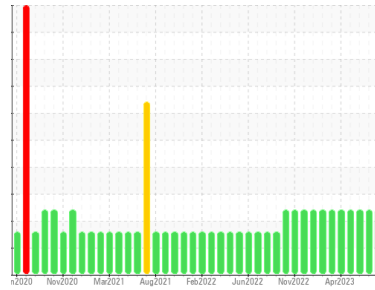
[view report](#)





OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Area
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	RP0035350	RP0035476	RP0035141
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	17	16	14
Iron	ppm	▲ 340	▲ 342	▲ 316
Chromium	ppm	▲ 74	▲ 74	▲ 69
Nickel	ppm	21	21	20
Titanium	ppm	0	0	0
Silver	ppm	0	0	0
Aluminum	ppm	5	<1	<1
Lead	ppm	<1	0	0
Copper	ppm	▲ 88	▲ 82	▲ 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	1	2	<1
Manganese	ppm	20	21	19
Magnesium	ppm	4	<1	4
Calcium	ppm	4	7	4
Phosphorus	ppm	1130	1158	1114
Zinc	ppm	33	36	33

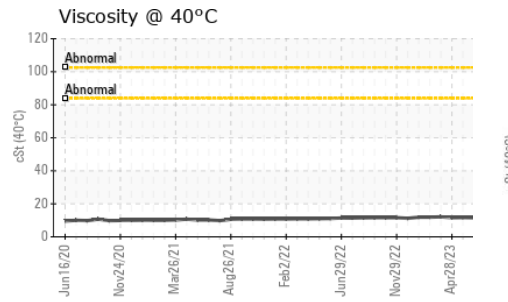
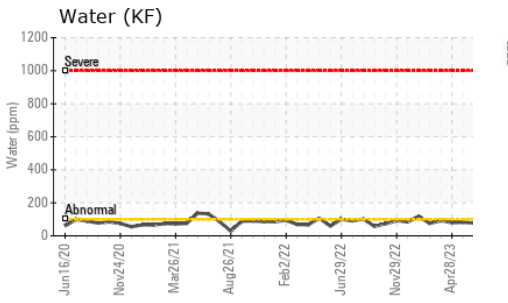
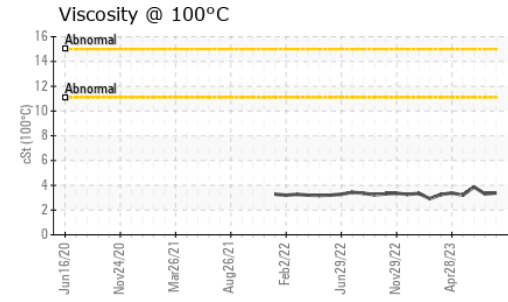
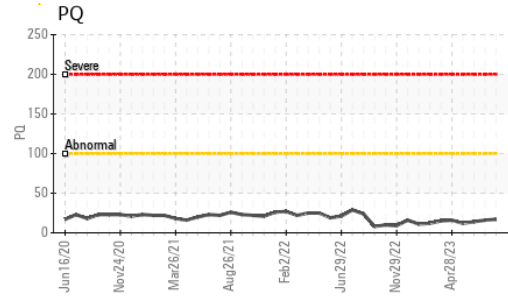
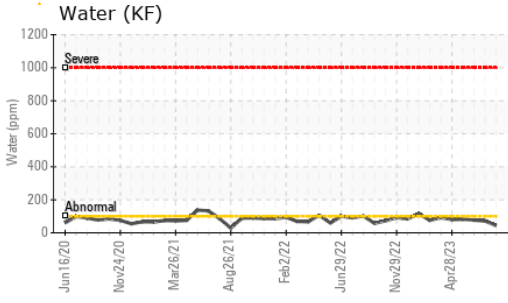
CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	4	5	4
Sodium	ppm	1	<1	2
Potassium	ppm	0	1	1
Water	%	0.004	0.007	0.007
ppm Water	ppm	44.0	71.9	76.9

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	0.204	0.213	0.165

OIL ANALYSIS REPORT

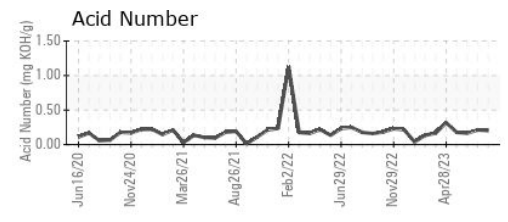
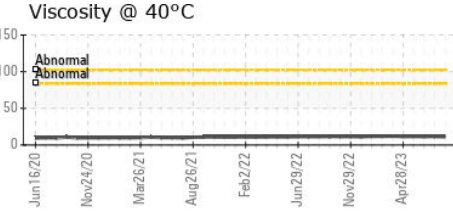
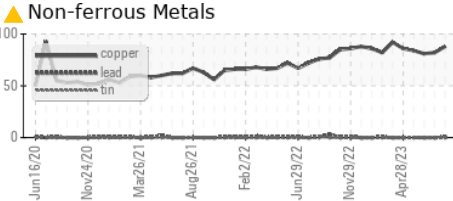
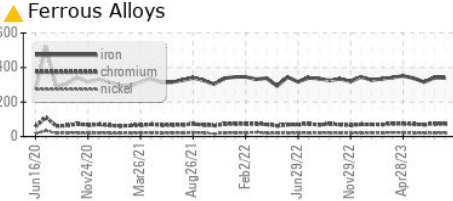


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	11.4	11.7	11.5
Visc @ 100°C	cSt	ASTM D445	3.38	3.3	3.87
Viscosity Index (VI)	Scale	ASTM D2270	188	163	274

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP0035350 **Received** : 29 Sep 2023
Lab Number : 05964920 **Diagnosed** : 05 Oct 2023
Unique Number : 10671471 **Diagnostician** : Jonathan Hester
Test Package : IND 2 (Additional Tests: FT-IR, ICP-NewOil, KV100, PQ, PrtCount, VI)

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 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)