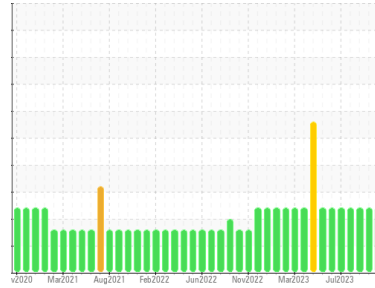


PROBLEM SUMMARY

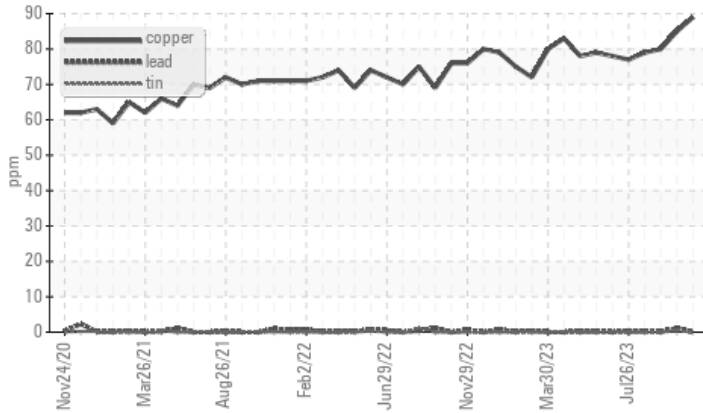
Sample Rating Trend



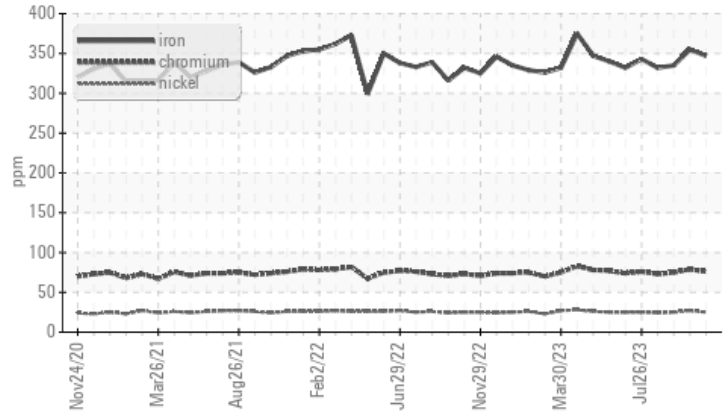
Area
CRM74
 Machine Id
CRM 74 CLEAN OIL TANK (S/N 16-2400-1026)
 Component
Tank Bulk Fluid Tank
 Fluid
NOT GIVEN (59438 GAL)

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	▲ 347	▲ 355	▲ 335
Chromium	ppm	ASTM D5185m	▲ 76	▲ 79	▲ 75
Copper	ppm	ASTM D5185m	▲ 89	▲ 85	▲ 80

Customer Id: OUTCALAL
 Sample No.: RP0034989
 Lab Number: 06027272
 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

07 Nov 2023 Diag: Doug Bogart

WEAR



No corrective action is recommended at this time. We recommend an early resample to monitor this condition. Moderate concentration of visible metal present. 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



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



29 Aug 2023 Diag: Doug Bogart

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.

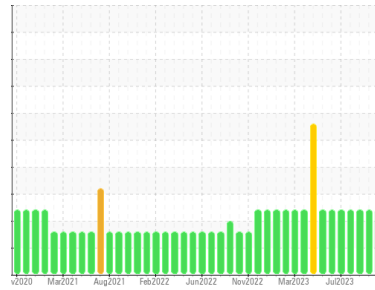
view report





OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Area
CRM74
 Machine Id
CRM 74 CLEAN OIL TANK (S/N 16-2400-1026)
 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	RP0034989	RP0035399	RP0035352
Sample Date	Client Info	05 Dec 2023	07 Nov 2023	27 Sep 2023
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	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	15	16	10	
Iron	ppm	ASTM D5185m	▲ 347	▲ 355	▲ 335
Chromium	ppm	ASTM D5185m	▲ 76	▲ 79	▲ 75
Nickel	ppm	ASTM D5185m	25	27	25
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m	2	0	5
Lead	ppm	ASTM D5185m	0	1	<1
Copper	ppm	ASTM D5185m	▲ 89	▲ 85	▲ 80
Tin	ppm	ASTM D5185m	0	<1	0
Vanadium	ppm	ASTM D5185m	0	<1	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	0	0
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	2	<1	2
Manganese	ppm	ASTM D5185m	22	22	20
Magnesium	ppm	ASTM D5185m	0	<1	3
Calcium	ppm	ASTM D5185m	8	9	4
Phosphorus	ppm	ASTM D5185m	1072	1179	1081
Zinc	ppm	ASTM D5185m	20	30	28

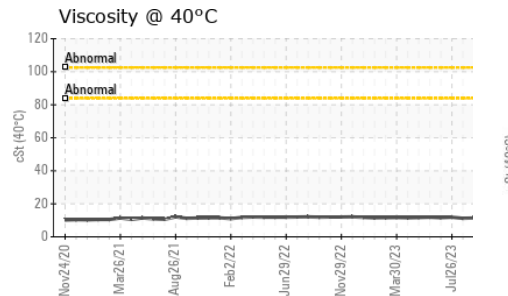
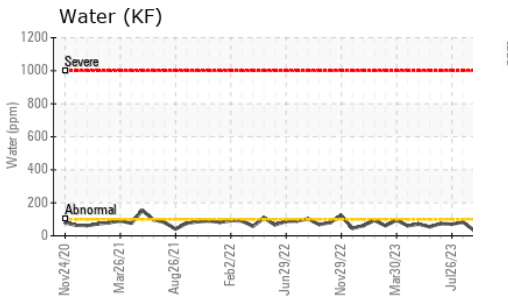
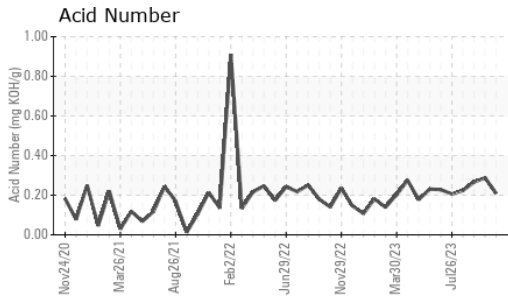
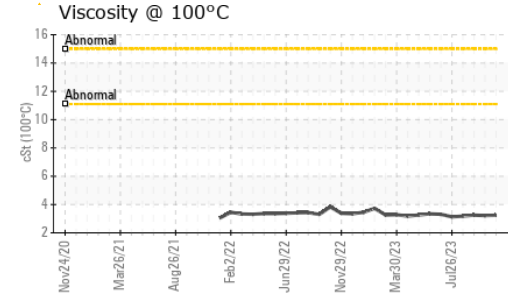
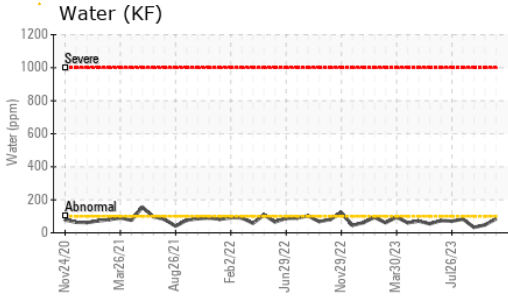
CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	2	4	2
Sodium	ppm	ASTM D5185m	<1	4	4
Potassium	ppm	ASTM D5185m	>20	<1	0
Water	%	ASTM D6304	0.008	0.004	0.003
ppm Water	ppm	ASTM D6304	85	48.3	33.1

FLUID DEGRADATION

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045	0.209	0.288	0.266

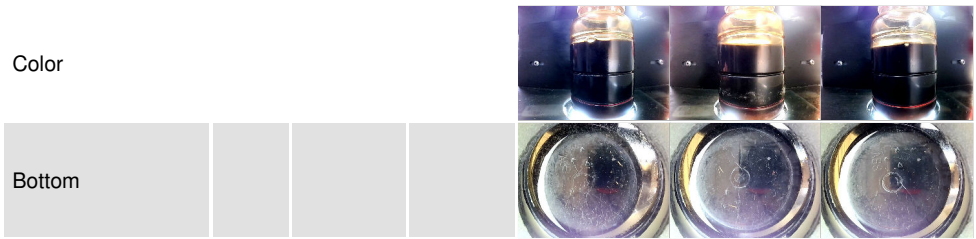
OIL ANALYSIS REPORT



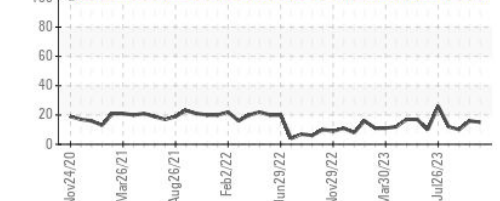
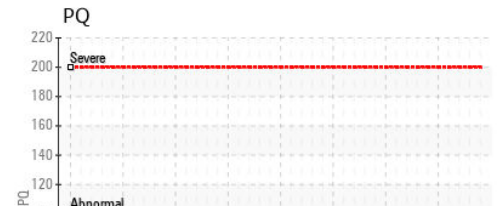
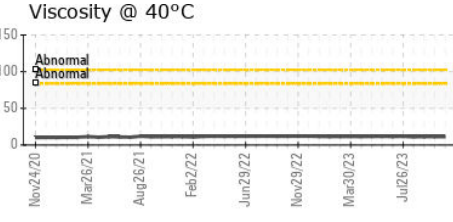
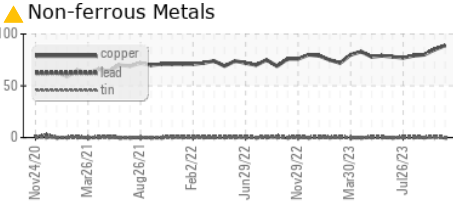
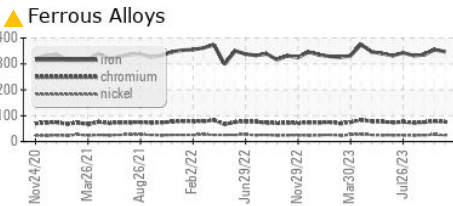
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	11.5	11.4	11.4
Visc @ 100°C	cSt	ASTM D445	3.24	3.22	3.25
Viscosity Index (VI)	Scale	ASTM D2270	159	159	164

SAMPLE IMAGES	method	limit/base	current	history1	history2
---------------	--------	------------	---------	----------	----------



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP0034989 **Received** : 06 Dec 2023
Lab Number : 06027272 **Diagnosed** : 11 Dec 2023
Unique Number : 10777063 **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:

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)