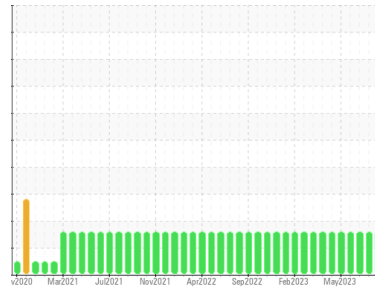


PROBLEM SUMMARY

Sample Rating Trend



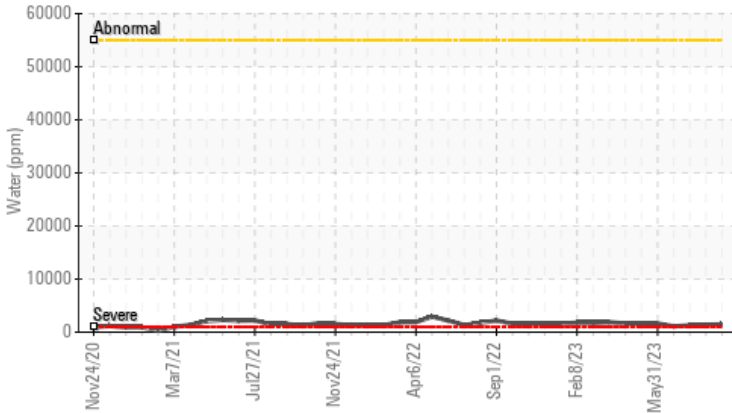
WATER



Area
MELT SHOP - HYDRAULIC
Machine Id
MELT SHOP GRINDER LUBE TANK (S/N 15-4000-0770)
Component
Tank Bulk Fluid Tank
Fluid
FIRE-RESISTANT FLUID ISO 68 (275 QTS)

COMPONENT CONDITION SUMMARY

▲ Water (KF)



RECOMMENDATION

No corrective action is recommended at this time.
Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				MARGINAL	MARGINAL	MARGINAL
Water	%	ASTM D6304	>55	▲ 0.146	▲ 0.142	▲ 0.127
ppm Water	ppm	ASTM D6304	>55000	▲ 1463.2	▲ 1420.2	▲ 1274.3

Customer Id: OUTCALAL
Sample No.: RP0034956
Lab Number: 05964915
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

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

29 Aug 2023 Diag: Doug Bogart

WATER



No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is a light concentration of water present in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



26 Jul 2023 Diag: Jonathan Hester

WATER



No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is a light concentration of water present in the oil. The amount and size of particulates present in the system are acceptable. 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

WATER



No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is a light concentration of water present in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

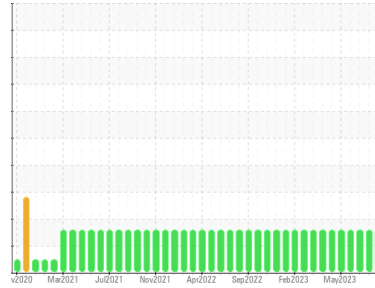
view report





OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Area
MELT SHOP - HYDRAULIC
 Machine Id
MELT SHOP GRINDER LUBE TANK (S/N 15-4000-0770)
 Component
Tank Bulk Fluid Tank
 Fluid
FIRE-RESISTANT FLUID ISO 68 (275 QTS)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a light concentration of water present in the oil. The amount and size of particulates present in the system are acceptable.

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	RP0034956	RP0038413	RP0035411
Sample Date	Client Info	27 Sep 2023	29 Aug 2023	26 Jul 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		MARGINAL	MARGINAL	MARGINAL

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	2	3	2
Chromium	ppm	ASTM D5185m	0	0	0
Nickel	ppm	ASTM D5185m	0	0	0
Titanium	ppm	ASTM D5185m	0	0	<1
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m	4	0	<1
Lead	ppm	ASTM D5185m	0	0	<1
Copper	ppm	ASTM D5185m	0	<1	<1
Tin	ppm	ASTM D5185m	0	0	<1
Vanadium	ppm	ASTM D5185m	0	0	<1
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185m	5	0	<1	0
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	5	0	0	0
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m	5	4	0	2
Calcium	ppm	ASTM D5185m	50	0	0	0
Phosphorus	ppm	ASTM D5185m	175	557	523	582
Zinc	ppm	ASTM D5185m	62	0	1	0

CONTAMINANTS

method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m		<1	<1	<1
Sodium	ppm	ASTM D5185m		0	<1	0
Potassium	ppm	ASTM D5185m	>20	1	0	2
Water	%	ASTM D6304	>55	▲ 0.146	▲ 0.142	▲ 0.127
ppm Water	ppm	ASTM D6304	>55000	▲ 1463.2	▲ 1420.2	▲ 1274.3

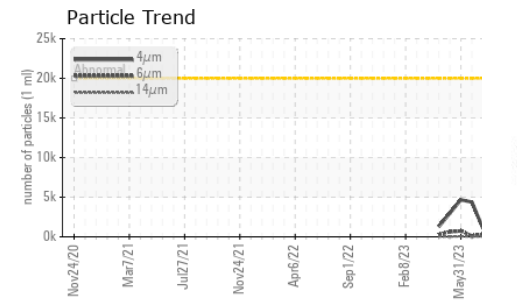
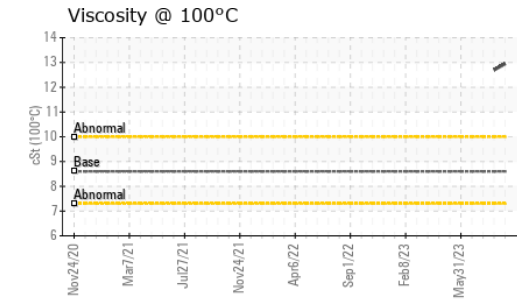
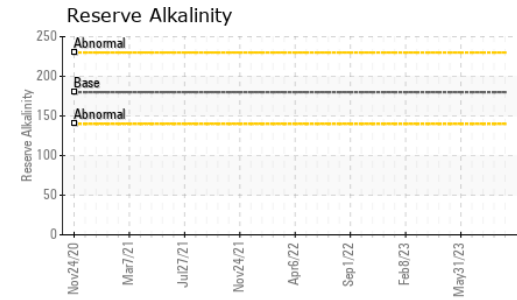
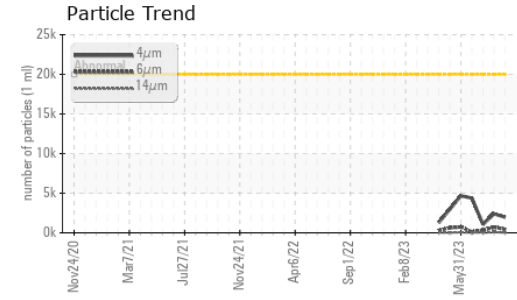
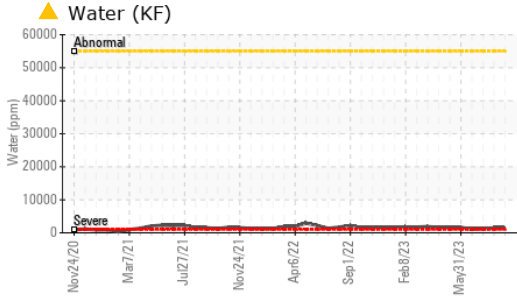
FLUID CLEANLINESS

method	limit/base	current	history1	history2	
Particles >4µm	ASTM D7647	>20000	1965	2405	1064
Particles >6µm	ASTM D7647	>5000	443	717	314
Particles >14µm	ASTM D7647	>640	33	86	35
Particles >21µm	ASTM D7647	>160	12	24	16
Particles >38µm	ASTM D7647	>40	1	0	2
Particles >71µm	ASTM D7647	>10	0	0	0
Oil Cleanliness	ISO 4406 (c)	>21/19/16	18/16/12	18/17/14	17/15/12

FLUID DEGRADATION

method	limit/base	current	history1	history2		
Acid Number (AN)	mg KOH/g	ASTM D8045	3.63	0.48	0.59	0.55

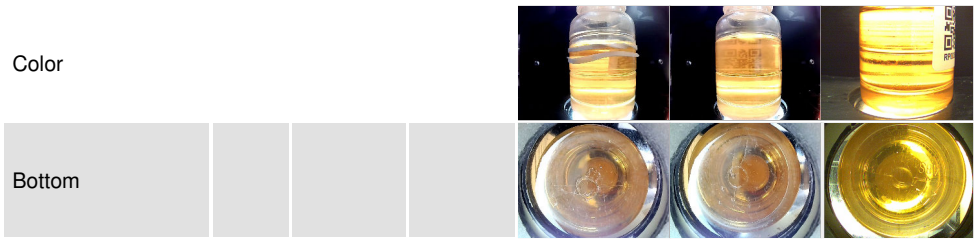
OIL ANALYSIS REPORT



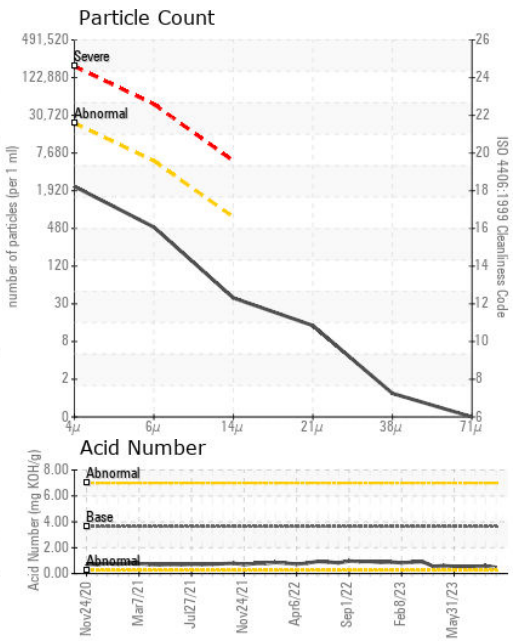
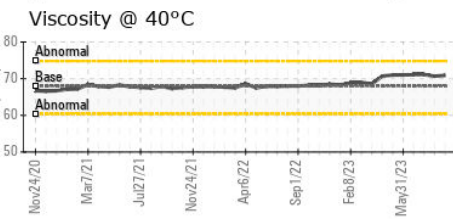
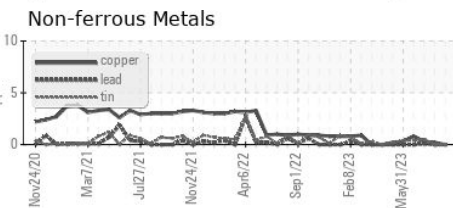
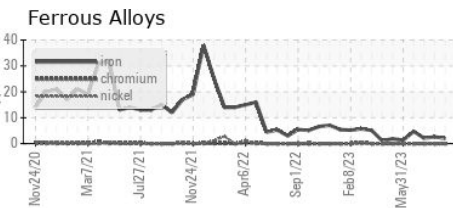
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>55	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	68	70.91	70.68
Visc @ 100°C	cSt	ASTM D445	8.6	12.95	12.7
Viscosity Index (VI)	Scale	ASTM D2270	96	185	181

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP0034956 **Received** : 29 Sep 2023
Lab Number : 05964915 **Diagnosed** : 03 Oct 2023
Unique Number : 10671466 **Diagnostician** : Jonathan Hester
Test Package : IND 2 (Additional Tests: KV100, pH, PrtCount, ReserveAlk, 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)