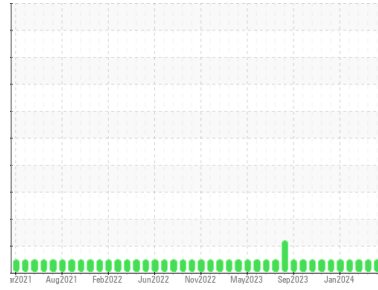




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area

CAPL - HYDRAULIC

Machine Id

CAPL ENTRY HYRDAULIC UNIT (S/N 16-4100-1010)

Component

Hydraulic System

Fluid

AW HYDRAULIC OIL ISO 46 (--- QTS)

DIAGNOSIS

Recommendation

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

All component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is 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	RP0044248	RP0042509	RP0042736
Sample Date	Client Info	03 Jun 2024	08 May 2024	26 Mar 2024
Machine Age	hrs Client Info	0	0	0
Oil Age	hrs Client Info	0	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		NORMAL	NORMAL	NORMAL

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm	ASTM D5185m >20	<1	0	0
Chromium ppm	ASTM D5185m >20	<1	0	0
Nickel ppm	ASTM D5185m >20	0	0	0
Titanium ppm	ASTM D5185m	0	0	0
Silver ppm	ASTM D5185m	0	0	0
Aluminum ppm	ASTM D5185m >20	2	0	0
Lead ppm	ASTM D5185m >20	0	<1	0
Copper ppm	ASTM D5185m >20	<1	0	0
Tin ppm	ASTM D5185m >20	0	<1	0
Vanadium ppm	ASTM D5185m	0	0	0
Cadmium ppm	ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm	ASTM D5185m 5	0	0	0
Barium ppm	ASTM D5185m 5	<1	0	0
Molybdenum ppm	ASTM D5185m 5	0	0	0
Manganese ppm	ASTM D5185m	0	0	0
Magnesium ppm	ASTM D5185m 25	1	0	0
Calcium ppm	ASTM D5185m 200	53	49	42
Phosphorus ppm	ASTM D5185m 300	352	352	308
Zinc ppm	ASTM D5185m 370	441	431	414

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185m >15	2	2	1
Sodium ppm	ASTM D5185m	0	<1	<1
Potassium ppm	ASTM D5185m >20	1	<1	0
Water %	ASTM D6304 >0.05	0.003	0.004	0.002
ppm Water ppm	ASTM D6304 >500	31	44	24

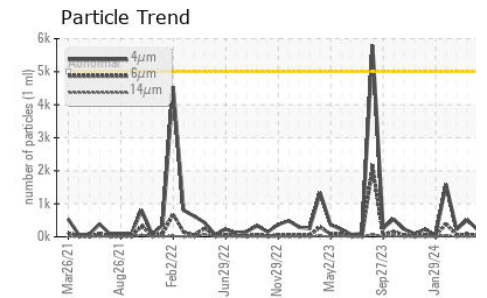
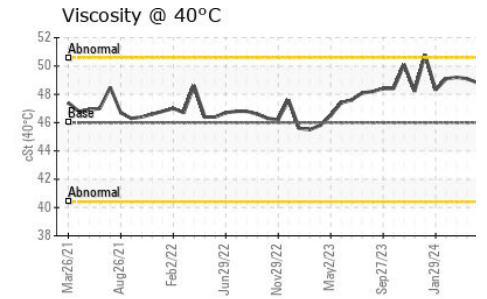
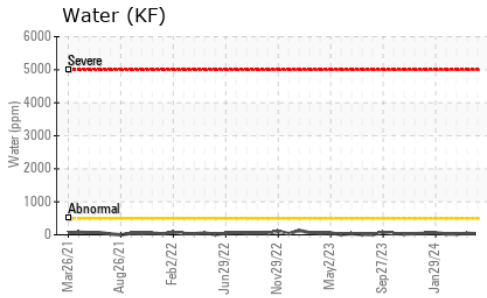
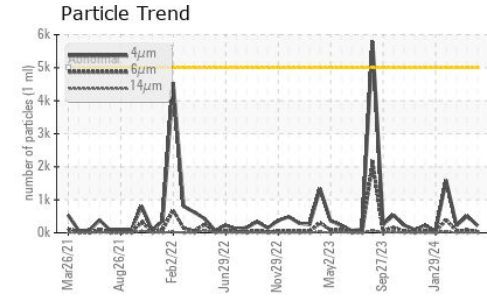
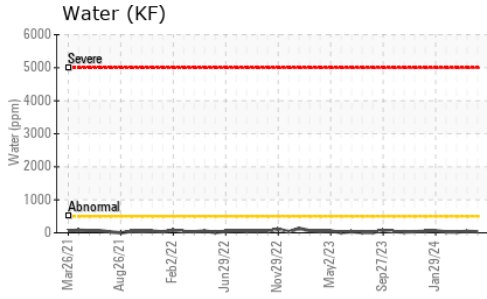
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	217	508	218
Particles >6µm	ASTM D7647 >1300	32	73	55
Particles >14µm	ASTM D7647 >160	6	10	7
Particles >21µm	ASTM D7647 >40	2	4	2
Particles >38µm	ASTM D7647 >10	0	0	0
Particles >71µm	ASTM D7647 >3	0	0	0
Oil Cleanliness	ISO 4406 (c) >19/17/14	15/12/10	16/13/10	15/13/10

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g	ASTM D8045 0.57	0.31	0.31	0.34

OIL ANALYSIS REPORT

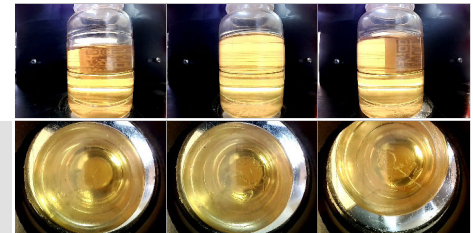
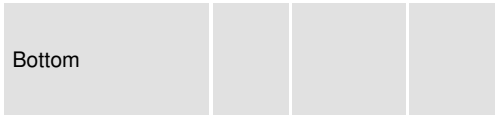


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

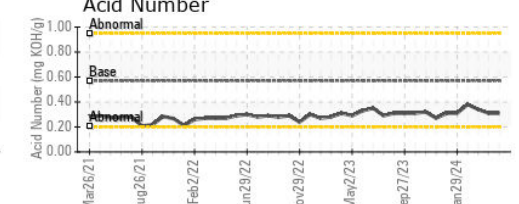
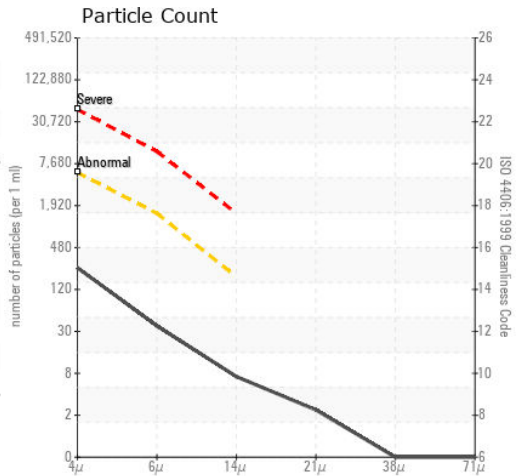
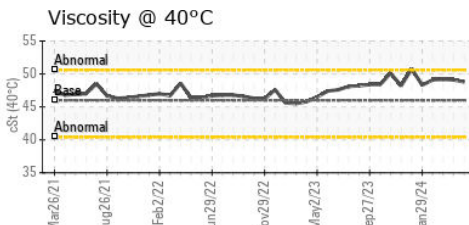
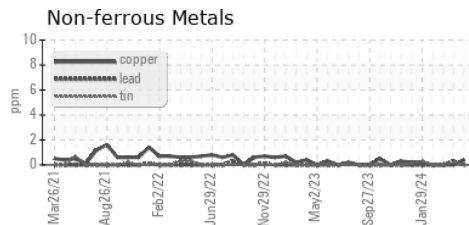
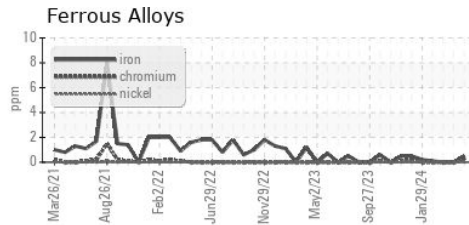
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	48.8	49.1

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color



GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP0044248
Lab Number : 06199112
Unique Number : 11061235
Test Package : IND 2
Received : 04 Jun 2024
Tested : 06 Jun 2024
Diagnosed : 06 Jun 2024 - Wes Davis

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)