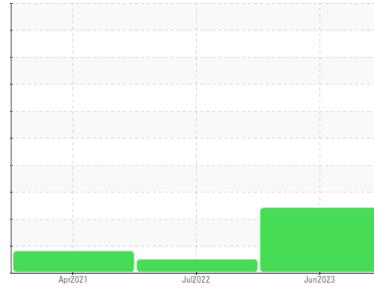




OIL ANALYSIS REPORT

Sample Rating Trend

ISO



Area
Die Casting Production
 Machine Id
DCC7_Buhler Carat 105 Compact DCC7 (S/N 3050_175_232)
 Component
Hydraulic System
 Fluid
CHEM TREND HF 28 HYDRAULIC FLUID (--- GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil.

Fluid Condition

The pH level of this fluid is within the acceptable limits. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC05867888	WC0701152	WC0567156
Sample Date	Client Info		07 Jun 2023	26 Jul 2022	23 Apr 2021
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			ABNORMAL	NORMAL	ATTENTION

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	0	0	<1
Chromium	ppm	ASTM D5185m >20	0	0	0
Nickel	ppm	ASTM D5185m >20	0	<1	<1
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m	0	1	1
Aluminum	ppm	ASTM D5185m >20	<1	0	<1
Lead	ppm	ASTM D5185m >20	0	0	<1
Copper	ppm	ASTM D5185m >20	<1	1	<1
Tin	ppm	ASTM D5185m >20	<1	<1	<1
Antimony	ppm	ASTM D5185m	---	---	0
Vanadium	ppm	ASTM D5185m	0	0	<1
Cadmium	ppm	ASTM D5185m	<1	3	<1

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	3
Barium	ppm	ASTM D5185m	0	2	0
Molybdenum	ppm	ASTM D5185m	0	0	<1
Manganese	ppm	ASTM D5185m	<1	<1	<1
Magnesium	ppm	ASTM D5185m	<1	0	0
Calcium	ppm	ASTM D5185m	0	<1	0
Phosphorus	ppm	ASTM D5185m	0	6	1
Zinc	ppm	ASTM D5185m	1	14	1
Sulfur	ppm	ASTM D5185m	11	8	0

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	1	<1	0
Sodium	ppm	ASTM D5185m	0	0	1
Potassium	ppm	ASTM D5185m >20	<1	0	<1
Water	%	ASTM D6304 >55	39.1	44.3	43.0
ppm Water	ppm	ASTM D6304 >55000	391000	443000	430000

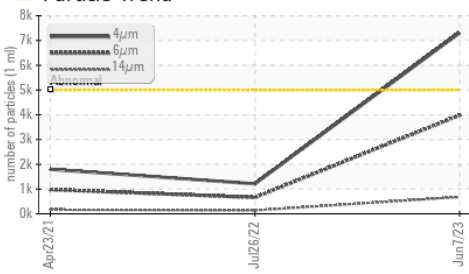
FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	7308	1211	1799
Particles >6µm	ASTM D7647	>1300	3981	660	980
Particles >14µm	ASTM D7647	>160	678	138	167
Particles >21µm	ASTM D7647	>40	228	38	56
Particles >38µm	ASTM D7647	>10	35	6	9
Particles >71µm	ASTM D7647	>3	4	1	1
Oil Cleanliness	ISO 4406 (c)	>19/17/14	20/19/17	17/17/14	18/17/15

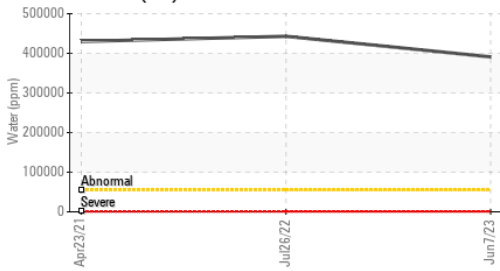


OIL ANALYSIS REPORT

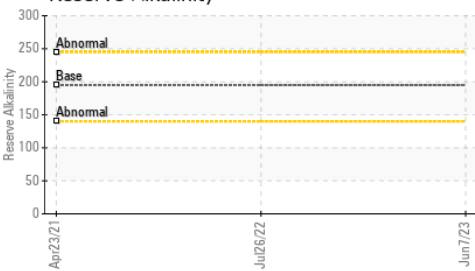
▲ Particle Trend



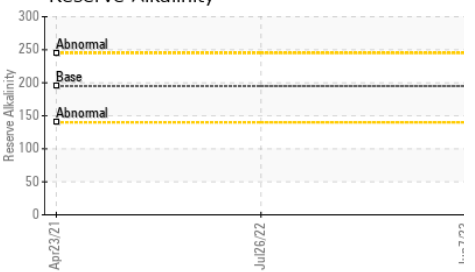
Water (KF)



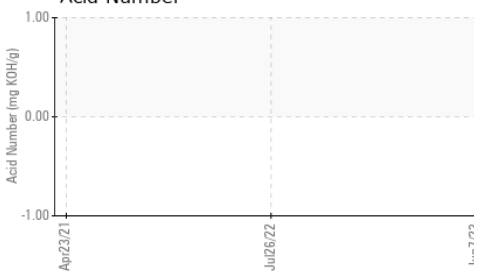
Reserve Alkalinity



Reserve Alkalinity



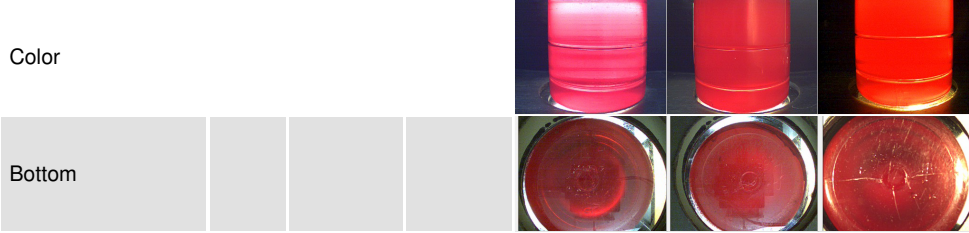
Acid Number



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>55	0.2%	0.2%
Free Water	scalar	*Visual		NEG	NEG

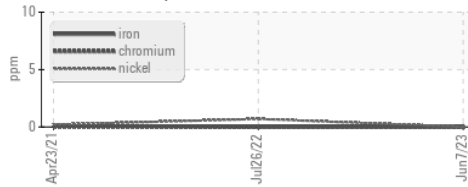
FLUID PROPERTIES	method	limit/base	current	history1	history2
pH	Scale 0-14	ASTM D1287	9.00	9.00	10.0
Visc @ 40°C	cSt	ASTM D445	49.8	47.9	46.0

SAMPLE IMAGES	method	limit/base	current	history1	history2
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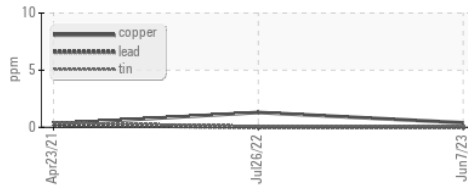


GRAPHS

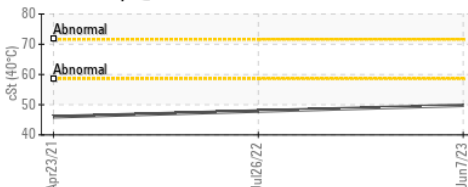
Ferrous Alloys



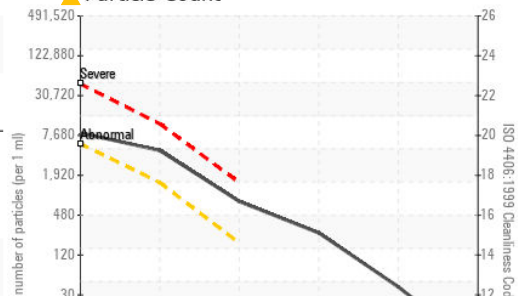
Non-ferrous Metals



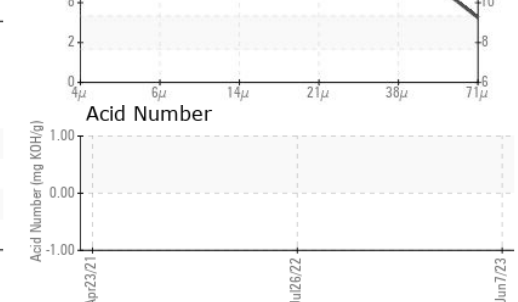
Viscosity @ 40°C



▲ Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC05867888 **Received** : 08 Jun 2023
Lab Number : 05867888 **Tested** : 21 Jun 2023
Unique Number : 10507672 **Diagnosed** : 21 Jun 2023 - Angela Borella
Test Package : PLANT (Additional Tests: pH, ReserveAlk)

ALUPRESS
 114 HUNTER INDUSTRIAL PARK RD
 LAURENS, SC
 US 29360
 Contact: ZACH MITCHUM
 zach.mitchum@alupress.com
 T: (864)766-4803
 F:

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)