

OIL ANALYSIS REPORT

Sample Rating Trend ISO

	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0794132	WC0851675	WC0851668
Sample Date		Client Info		25 Feb 2024	24 Feb 2024	15 Dec 202
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	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	6	0	<1
Chromium	ppm	ASTM D5185m	>20	<1	0	0
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	0	2
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	5	0	<1
Tin	ppm	ASTM D5185m	>20	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history
Boron	ppm	ASTM D5185m	5	0	0	2
Barium	ppm	ASTM D5185m	5	0	0	6
Molybdenum	ppm	ASTM D5185m	5	0	0	1
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	25	0	0	11
Calcium	ppm	ASTM D5185m	200	31	46	61
Phosphorus	ppm	ASTM D5185m	300	307	327	10.1
					521	421
	ppm	ASTM D5185m	370	361	391	421 482
Zinc						
Zinc	ppm ppm	ASTM D5185m	370	361	391	482 2209
Zinc Sulfur CONTAMINANTS	ppm ppm	ASTM D5185m ASTM D5185m method	370 2500	361 1031	391 1047	482 2209
Zinc Sulfur CONTAMINANTS Silicon	ppm ppm	ASTM D5185m ASTM D5185m method	370 2500 limit/base	361 1031 current	391 1047 history1	482 2209 history:
Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm	ASTM D5185m ASTM D5185m method ASTM D5185m	370 2500 limit/base	361 1031 current <1	391 1047 history1 0	482 2209 history: <1
Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m	370 2500 limit/base >15 >20	361 1031 current <1 2	391 1047 history1 0 1	482 2209 history. <1 0
Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm %	ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m	370 2500 limit/base >15 >20	361 1031 current <1 2 0	391 1047 history1 0 1 0	482 2209 history <1 0 <1 NEG
Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water FLUID CLEANLIN	ppm ppm ppm ppm ppm ppm %	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304	370 2500 limit/base >15 >20 >0.05	361 1031 current <1 2 0 NEG	391 1047 history1 0 1 0 NEG	482 2209 history <1 0 <1 NEG
Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water FLUID CLEANLIN Particles >4µm	ppm ppm ppm ppm ppm ppm %	ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304	370 2500 limit/base >15 >20 >0.05 limit/base	361 1031 current <1 2 0 NEG current	391 1047 <u>history1</u> 0 1 0 NEG history1	482 2209 history: <1 0 <1 NEG history:
Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water FLUID CLEANLIN Particles >4µm Particles >6µm	ppm ppm ppm ppm ppm ppm %	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 Method ASTM D7647	370 2500 limit/base >15 >20 >0.05 limit/base >5000	361 1031 <u>current</u> <1 2 0 NEG <u>current</u> ▲ 86815	391 1047 history1 0 1 0 NEG history1 3582	482 2209 history: <1 0 <1 NEG history: 2082
Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	ppm ppm ppm ppm ppm ppm %	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 method ASTM D7647 ASTM D7647	370 2500 limit/base >15 >20 >0.05 limit/base >5000 >1300 >160	361 1031 current <1 2 0 NEG 0 NEG current ▲ 86815 ▲ 9331	391 1047 history1 0 1 0 NEG history1 3582 219	482 2209 history: <1 0 <1 NEG history: 2082 301
Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water	ppm ppm ppm ppm ppm ppm %	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D7647 ASTM D7647 ASTM D7647	370 2500 limit/base >15 >20 >0.05 limit/base >5000 >1300 >160	361 1031 current <1 2 0 NEG 0 NEG current ▲ 86815 ▲ 9331 92	391 1047 history1 0 1 0 NEG history1 3582 219 4	482 2209 history: <1 0 <1 NEG history: 2082 301 29
Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm ppm ppm ppm ppm %	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	370 2500 limit/base >15 >20 >0.05 limit/base >5000 >1300 >160 >40	361 1031 current <1 2 0 NEG current ▲ 86815 ▲ 9331 92 19	391 1047 history1 0 1 0 NEG history1 3582 219 4 2	482 2209 history: <1 0 <1 NEG history: 2082 301 29 9
Zinc Sulfur Sulfur CONTAMINANTS Silicon Sodium Potassium Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm	ppm ppm ppm ppm ppm ppm %	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	370 2500 limit/base >15 >20 >0.05 limit/base >5000 >1300 >160 >40 >10	361 1031 current <1 2 0 NEG current ▲ 86815 ▲ 9331 92 19 1	391 1047 history1 0 1 0 NEG history1 3582 219 4 2 2 9 0	482 2209 history <1 0 <1 NEG history 2082 301 29 9 1 1 0
Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm	ppm ppm ppm ppm ppm %	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	370 2500 limit/base >15 >20 >0.05 limit/base >5000 >1300 >160 >40 >10 >3	361 1031 current <1 2 0 NEG current ▲ 86815 ▲ 9331 92 19 1 0	391 1047 history1 0 1 0 NEG history1 3582 219 4 2 2 9 0 0 0	482 2209 history2 <1 0 <1 NEG history2 2082 301 29 9 1

LINE 11 UNILOY (S/N 5108)

DIAGNOSIS

Machine Ic

Component

A Recommendation

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

Wear

All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



OIL ANALYSIS REPORT

scalar

scalar

scalar

scalar

scalar

scalar

scalar

scalar

cSt

method

*Visual

*Visual

*Visua

limit/base

NONE

NONE

NONE

VISUAL

White Metal

Yellow Metal

Precipitate

Silt

Debris

Odor

Sand/Dirt

Appearance

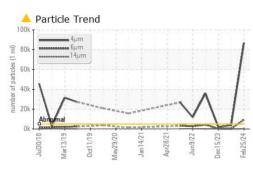
Free Water

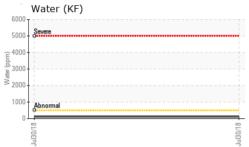
Visc @ 40°C

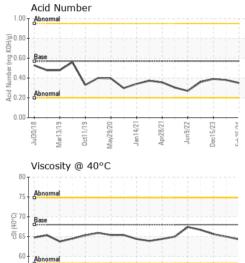
Emulsified Water

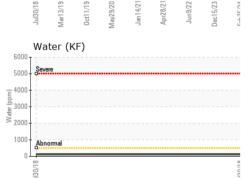
FLUID PROPERTIES

SAMPLE IMAGES





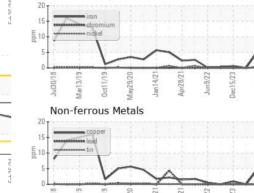


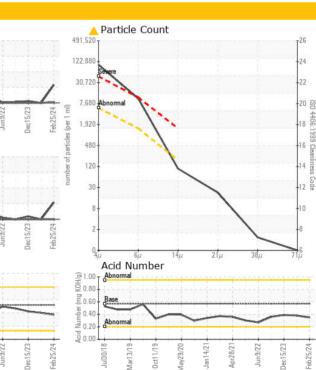




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Laboratory Sample No. Lab Number





: 06100097 Tested : 28 Feb 2024 Unique Number : 10898327 Diagnosed : 28 Feb 2024 - Don Baldridge Test Package : PLANT Certificate L2367 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)

Jan14/21 May29/20

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

unr28/21

Received

: 26 Feb 2024

601 SELDON AVE VERONA, PA US 15147 Contact: MIKE BARBOUR mike.barbour@altiumpkg.com T: (412)423-2975 F:

Altium Packaging - VERONA - Plant 1044A

GRAPHS Ferrous Alloys

Var1

Mar13/19

Abnorma 75 (10°C) (1

Ba

: WC0794132

80

60 Abno

55

Viscosity @ 40°C

Color

Report Id: CONVERPA [WUSCAR] 06100097 (Generated: 02/28/2024 11:29:44) Rev: 1

Contact/Location: MIKE BARBOUR - CONVERPA

1406

6661

eb25/24

scalar *Visual NONE NONE NONE NONE NONE *Visual NONE NONE NONE NONE *Visual NONE NONE NONE NORML *Visual NORML NORML NORML NORML NORML NORML *Visual NORML *Visual >0.05 NEG NFG NEG scalar *Visual NEG NEG NEG method limit/base curren history history2 ASTM D445 68 64.3 65.0 65.6 method limit/base current historv1 history2

current

NONE

NONE

NONE

history1

NONE

NONE

NONE

history2

NONE

NONE

NONE

Bottom