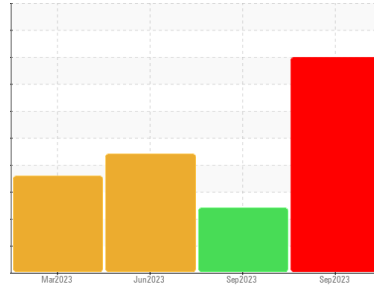


OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id
PREPRESS

Component
Hydraulic System

Fluid
SHELL TELLUS 46 (--- LTR)

DIAGNOSIS

Recommendation

We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation. Please specify the component make and model with your next sample.

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates (2 to 100 microns in size) present in the oil. The system cleanliness code is much higher than the acceptable limit for the target ISO 4406 cleanliness code.

Fluid Condition

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		Y2K0001431	Y2K0001211	Y2K0001391
Sample Date	Client Info		13 Sep 2023	11 Sep 2023	18 Jun 2023
Machine Age	mths	Client Info	0	0	0
Oil Age	mths	Client Info	0	0	0
Oil Changed	Client Info		Not Changed	N/A	N/A
Sample Status			SEVERE	ABNORMAL	ABNORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	3	<1	0
Chromium	ppm	ASTM D5185m >10	<1	0	0
Nickel	ppm	ASTM D5185m >10	0	0	0
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >10	0	0	0
Lead	ppm	ASTM D5185m >10	<1	0	▲ 13
Copper	ppm	ASTM D5185m >75	8	<1	6
Tin	ppm	ASTM D5185m >10	0	0	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 0.0	0	4	0
Barium	ppm	ASTM D5185m 0	0	0	0
Molybdenum	ppm	ASTM D5185m 0	<1	0	<1
Manganese	ppm	ASTM D5185m	0	<1	0
Magnesium	ppm	ASTM D5185m 11	14	5	4
Calcium	ppm	ASTM D5185m 35	14	48	55
Phosphorus	ppm	ASTM D5185m 266	260	312	330
Zinc	ppm	ASTM D5185m 276	282	394	428
Sulfur	ppm	ASTM D5185m 1847	738	829	976

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	<1	18	▲ 51
Sodium	ppm	ASTM D5185m	0	3	0
Potassium	ppm	ASTM D5185m >20	<1	2	1
Water	%	ASTM D6304 >0.1	0.008	0.00	0.003
ppm Water	ppm	ASTM D6304 >1000	87.2	0.00	30.2

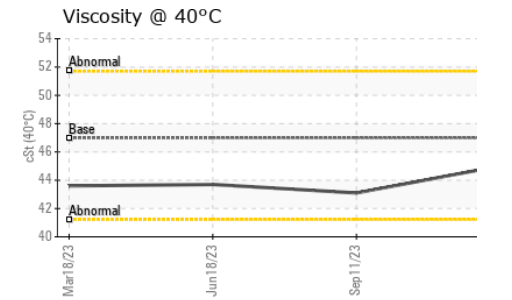
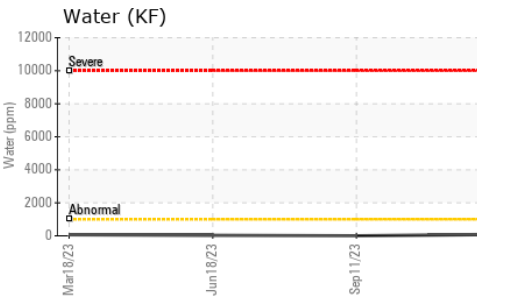
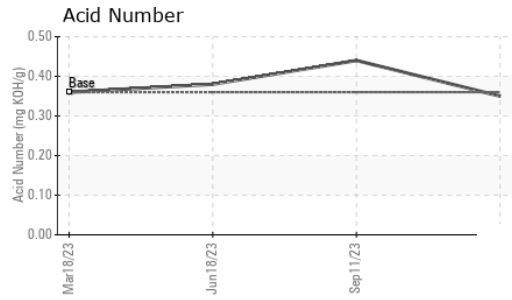
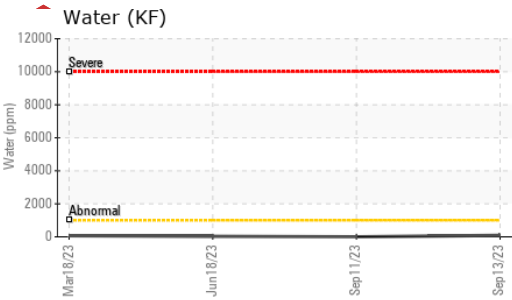
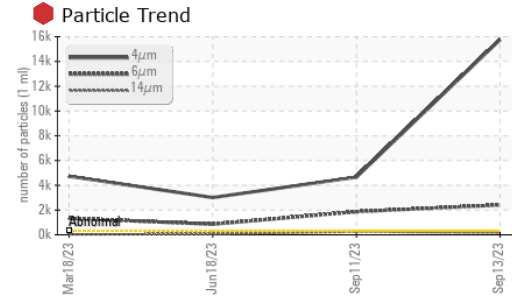
FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>320	● 15762	▲ 4659	▲ 3008
Particles >6µm	ASTM D7647	>80	● 2409	▲ 1865	▲ 863
Particles >14µm	ASTM D7647	>20	● 180	▲ 252	▲ 59
Particles >21µm	ASTM D7647	>4	● 67	▲ 88	▲ 22
Particles >38µm	ASTM D7647	>3	▲ 7	▲ 6	2
Particles >71µm	ASTM D7647	>3	1	1	0
Oil Cleanliness	ISO 4406 (c)	>15/13/11	● 21/18/15	▲ 19/18/15	▲ 19/17/13

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.36	0.35	0.44	0.38

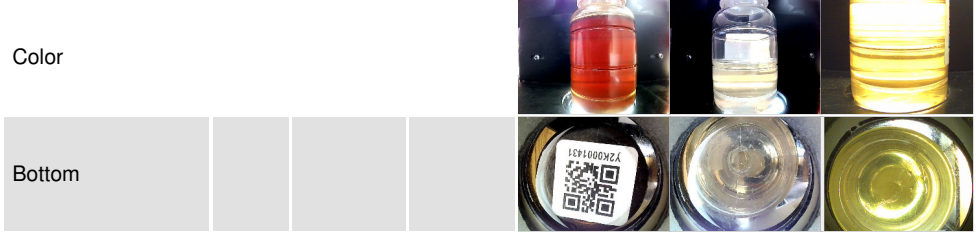
OIL ANALYSIS REPORT



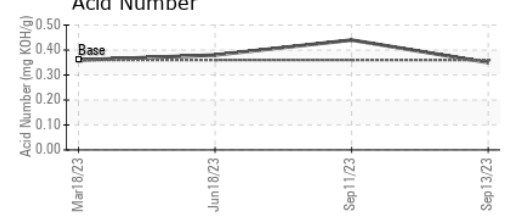
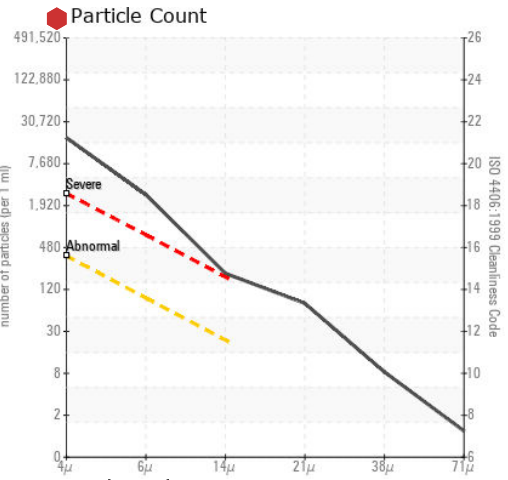
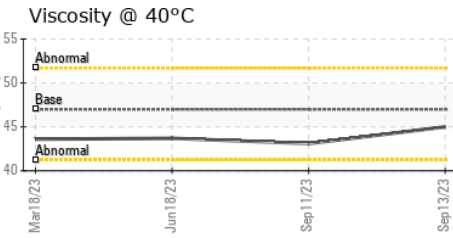
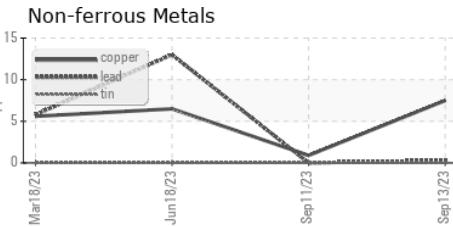
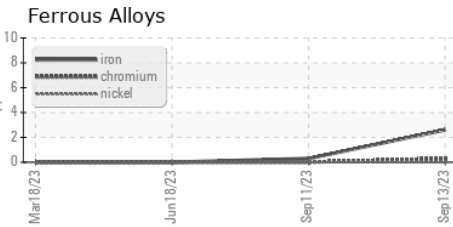
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46.99	45.0	43.1

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : Y2K0001431 **Received** : 22 Sep 2023
Lab Number : 05959077 **Diagnosed** : 25 Sep 2023
Unique Number : 10660290 **Diagnostician** : Wes Davis
Test Package : MOB 2 (Additional Tests: KF)
 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)

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