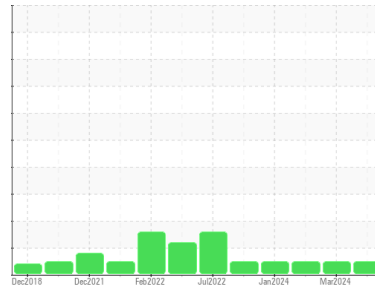




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
TR-7
 Component
Hydraulic System
 Fluid
 {not provided} (--- GAL)

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	WC06152000	WC06124926	WC06093617
Sample Date	Client Info	15 Apr 2024	19 Mar 2024	15 Feb 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	1	0
Chromium ppm	ASTM D5185m >20	0	<1	0
Nickel ppm	ASTM D5185m >20	0	0	<1
Titanium ppm	ASTM D5185m	0	0	0
Silver ppm	ASTM D5185m	0	0	0
Aluminum ppm	ASTM D5185m >20	0	0	0
Lead ppm	ASTM D5185m >20	0	0	0
Copper ppm	ASTM D5185m >20	0	1	0
Tin ppm	ASTM D5185m >20	0	<1	<1
Vanadium ppm	ASTM D5185m	<1	0	0
Cadmium ppm	ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm	ASTM D5185m	2	2	2
Barium ppm	ASTM D5185m	4	2	3
Molybdenum ppm	ASTM D5185m	0	<1	0
Manganese ppm	ASTM D5185m	<1	<1	0
Magnesium ppm	ASTM D5185m	<1	0	1
Calcium ppm	ASTM D5185m	6	6	11
Phosphorus ppm	ASTM D5185m	232	246	260
Zinc ppm	ASTM D5185m	4	5	12
Sulfur ppm	ASTM D5185m	3976	4243	3655

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185m >15	<1	<1	0
Sodium ppm	ASTM D5185m	4	3	3
Potassium ppm	ASTM D5185m >20	1	0	2
Water %	ASTM D6304 >0.05	0.007	0.006	0.006
ppm Water	ASTM D6304 >500	78	63	62

FLUID CLEANLINESS

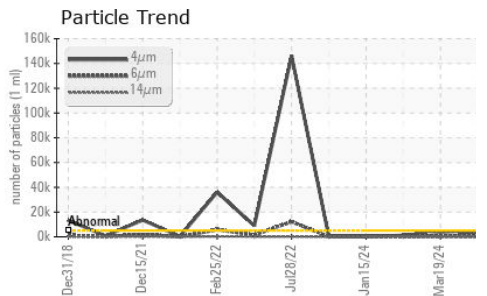
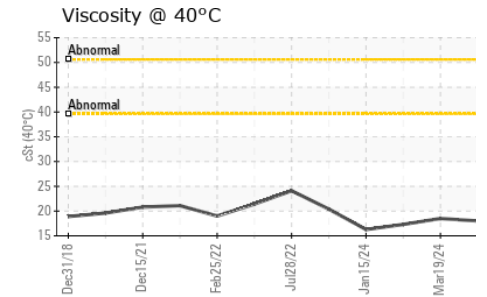
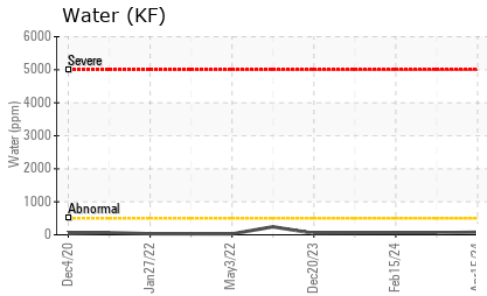
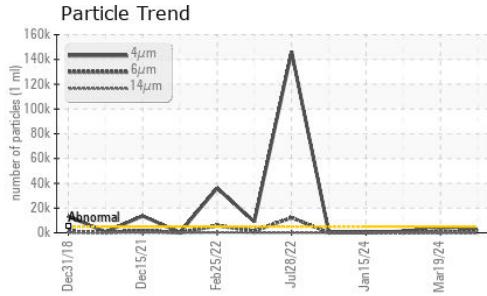
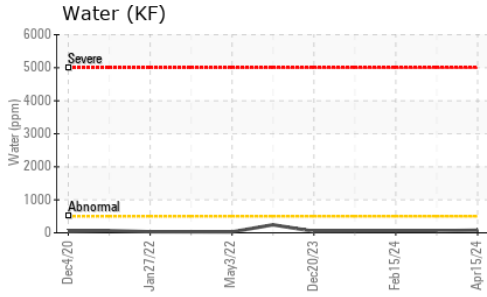
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	1925	3850	1215
Particles >6µm	ASTM D7647 >1300	216	292	92
Particles >14µm	ASTM D7647 >160	20	17	8
Particles >21µm	ASTM D7647 >40	5	5	3
Particles >38µm	ASTM D7647 >10	0	0	0
Particles >71µm	ASTM D7647 >3	0	0	0
Oil Cleanliness	ISO 4406 (c) >19/17/14	18/15/11	19/15/11	17/14/10

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g	ASTM D8045	0.74	0.78	0.65



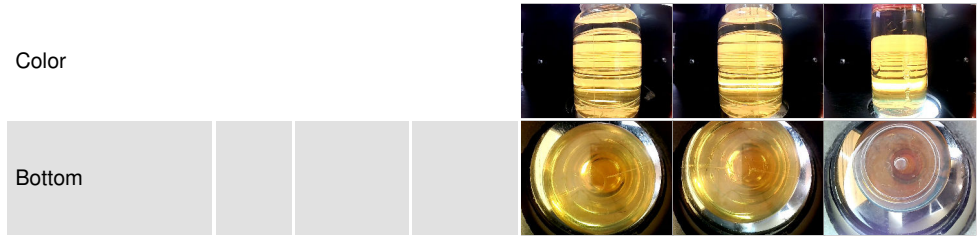
OIL ANALYSIS REPORT



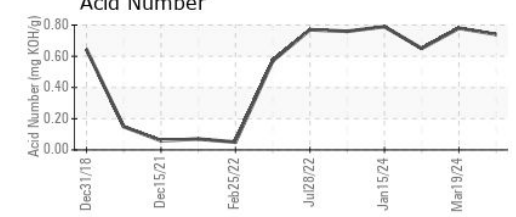
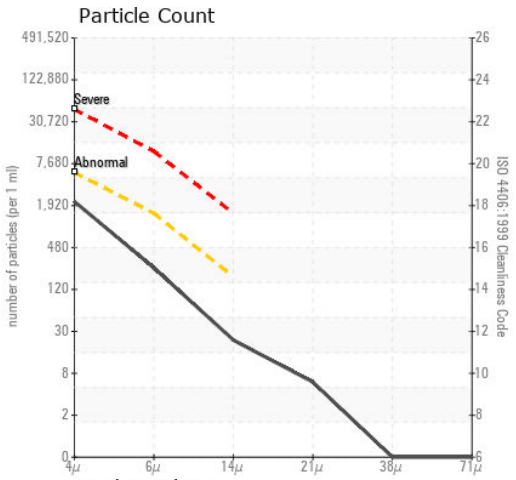
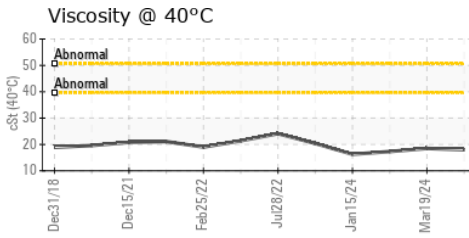
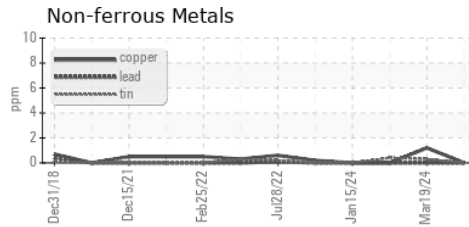
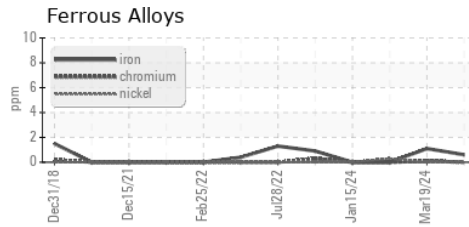
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	18.0	18.5	17.3

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC06152000 **Received** : 17 Apr 2024
Lab Number : 06152000 **Tested** : 18 Apr 2024
Unique Number : 10982078 **Diagnosed** : 18 Apr 2024 - Wes Davis
Test Package : IND 2 (Additional Tests: KF)

METALUBE INC
 56 CYPRESS DR
 YOUNGSVILLE, NC
 US 27596

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)

Contact: CHRIS BARNES
cbarnes@metalubeinc.com

T: (919)554-3024

F: (919)554-3023