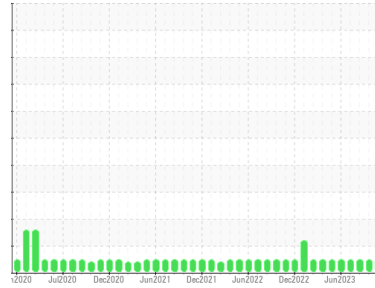




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
Environmental
 Machine Id
RTO 5 Hydraulic Unit (S/N EN252)
 Component
Hydraulic System
 Fluid
TES SYN 295 (30 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. 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	WC0783010	WC0734580	WC0782968
Sample Date	Client Info	25 Sep 2023	22 Aug 2023	24 Jul 2023
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	15	14	14
Chromium ppm ASTM D5185m	>20	0	0	0
Nickel ppm ASTM D5185m	>20	0	0	0
Titanium ppm ASTM D5185m		<1	0	0
Silver ppm ASTM D5185m		0	0	0
Aluminum ppm ASTM D5185m	>20	0	<1	<1
Lead ppm ASTM D5185m	>20	<1	<1	<1
Copper ppm ASTM D5185m	>20	18	19	18
Tin ppm ASTM D5185m	>20	<1	<1	<1
Vanadium ppm ASTM D5185m		0	<1	0
Cadmium ppm ASTM D5185m		0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm ASTM D5185m	100	88	80	81
Barium ppm ASTM D5185m	0	0	0	0
Molybdenum ppm ASTM D5185m	0	0	0	0
Manganese ppm ASTM D5185m	2	<1	0	<1
Magnesium ppm ASTM D5185m	1	0	0	1
Calcium ppm ASTM D5185m	50	81	86	86
Phosphorus ppm ASTM D5185m	250	228	237	237
Zinc ppm ASTM D5185m	20	14	16	20
Sulfur ppm ASTM D5185m	500	856	1003	991

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185m	>15	1	2	1
Sodium ppm ASTM D5185m		10	11	10
Potassium ppm ASTM D5185m	>20	1	0	2

FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm ASTM D7647	>2500	164	594	1174
Particles >6µm ASTM D7647	>640	50	90	172
Particles >14µm ASTM D7647	>80	5	15	12
Particles >21µm ASTM D7647	>20	1	7	5
Particles >38µm ASTM D7647	>4	0	0	0
Particles >71µm ASTM D7647	>3	0	0	0
Oil Cleanliness ISO 4406 (c)	>18/16/13	15/13/10	16/14/11	17/15/11

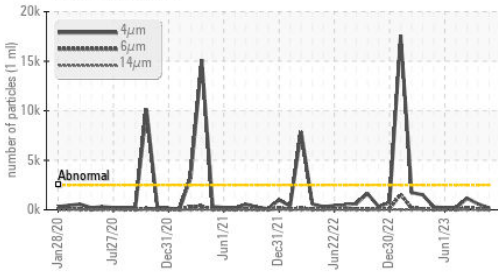
FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g ASTM D8045	1.0	0.26	0.74	0.72

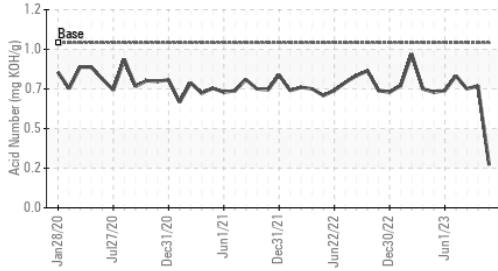


OIL ANALYSIS REPORT

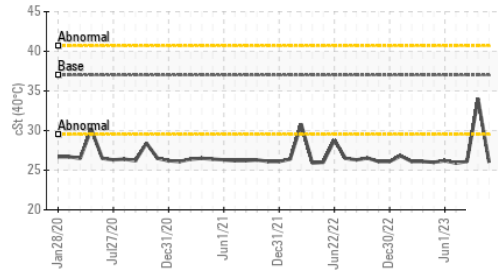
Particle Trend



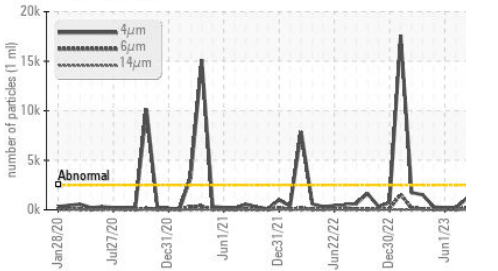
Acid Number



Viscosity @ 40°C



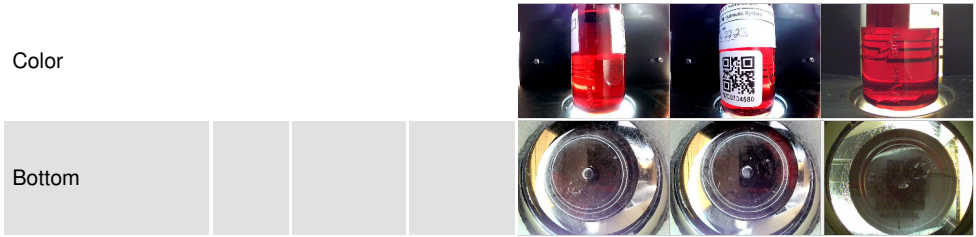
Particle Trend



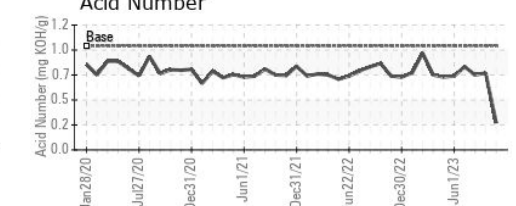
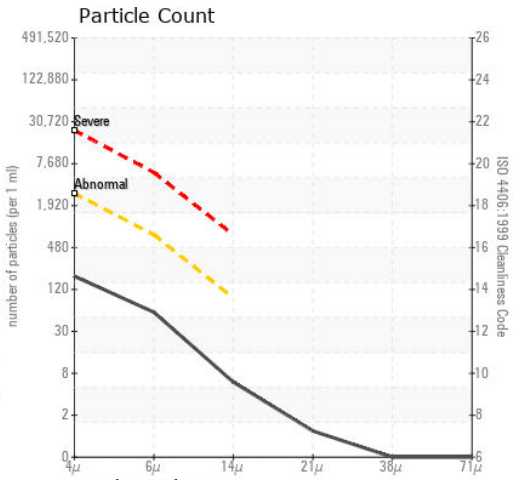
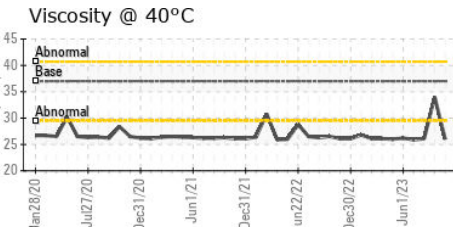
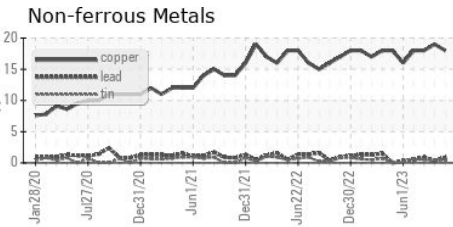
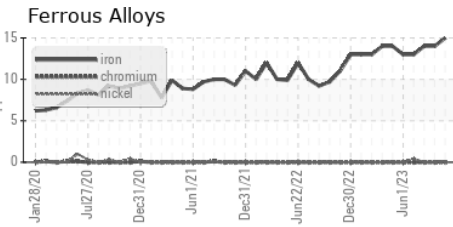
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	37.0	26.0	34.0	26.1

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : WC0783010 Received : 28 Sep 2023
 Lab Number : 05964162 Diagnosed : 01 Oct 2023
 Unique Number : 10670713 Diagnostician : Don Baldrige
 Test Package : IND 2

J.M. Huber Corporation
 PO BOX 38
 CRYSTAL HILL, VA
 US 24539
 Contact: Ted Hudson
 ted.hudson@huber.com
 T: (434)476-6628
 F: (434)476-8133

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)