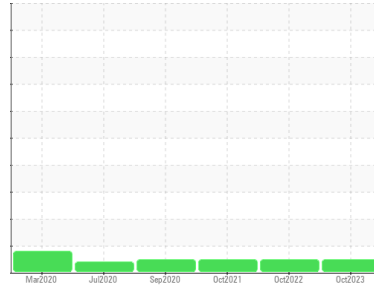




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
MT
 Machine Id
TEST CELL B1
 Component
Hydraulic System
 Fluid
MOBIL DTE 24 (100 LTR)

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	WC0810910	WC0690131	WC0553160
Sample Date	Client Info	31 Oct 2023	10 Oct 2022	04 Oct 2021
Machine Age	hrs Client Info	0	0	0
Oil Age	hrs Client Info	0	0	0
Oil Changed	Client Info	Not Changed	Not Changed	Not Changed
Sample Status		NORMAL	NORMAL	NORMAL

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185m	>20	0	<1	<1
Chromium ppm ASTM D5185m	>20	<1	0	0
Nickel ppm ASTM D5185m	>20	0	0	0
Titanium ppm ASTM D5185m		0	0	0
Silver ppm ASTM D5185m		0	0	0
Aluminum ppm ASTM D5185m	>20	<1	<1	0
Lead ppm ASTM D5185m	>20	0	0	0
Copper ppm ASTM D5185m	>20	2	2	1
Tin ppm ASTM D5185m	>20	0	0	0
Antimony ppm ASTM D5185m		---	---	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
Barium ppm ASTM D5185m		0	0	0
Molybdenum ppm ASTM D5185m		0	0	<1
Manganese ppm ASTM D5185m		0	<1	0
Magnesium ppm ASTM D5185m		3	3	1
Calcium ppm ASTM D5185m		311	304	283
Phosphorus ppm ASTM D5185m		405	413	365
Zinc ppm ASTM D5185m		603	610	510
Sulfur ppm ASTM D5185m		2904	2909	1935

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185m	>15	<1	<1	0
Sodium ppm ASTM D5185m		38	38	46
Potassium ppm ASTM D5185m	>20	2	<1	0

FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm ASTM D7647	>640	411	146	316
Particles >6µm ASTM D7647	>160	140	19	83
Particles >14µm ASTM D7647	>20	13	4	10
Particles >21µm ASTM D7647	>4	4	1	3
Particles >38µm ASTM D7647	>3	0	0	0
Particles >71µm ASTM D7647	>3	0	0	0
Oil Cleanliness ISO 4406 (c)	>16/14/11	16/14/11	14/11/9	15/14/10

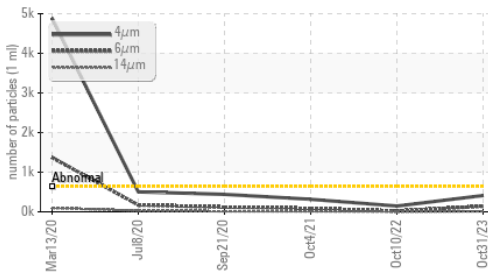
FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g ASTM D8045		0.46	0.51	0.564

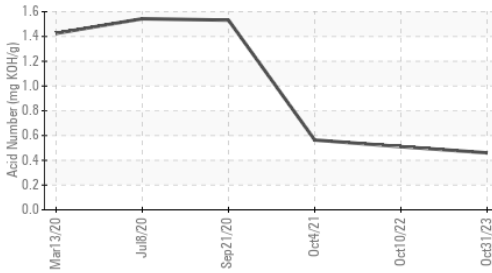


OIL ANALYSIS REPORT

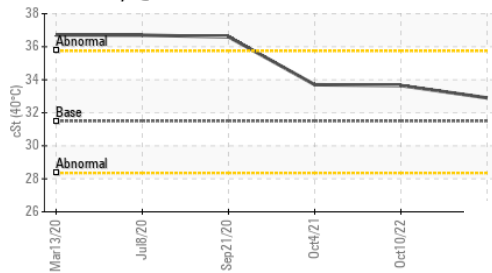
Particle Trend



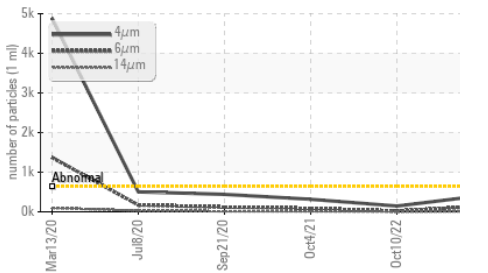
Acid Number



Viscosity @ 40°C



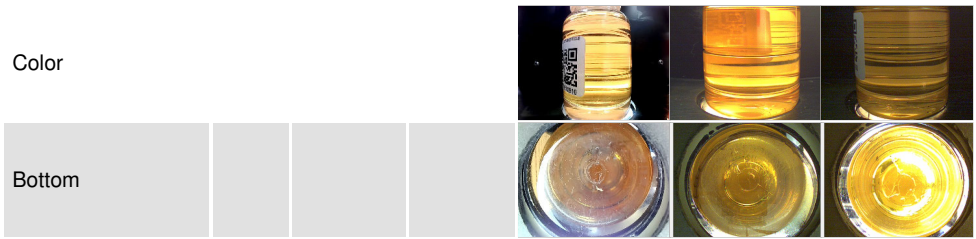
Particle Trend



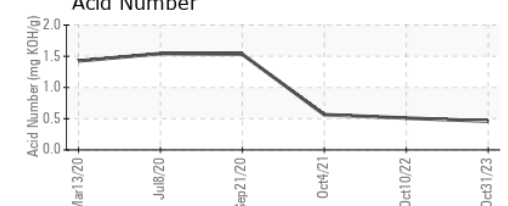
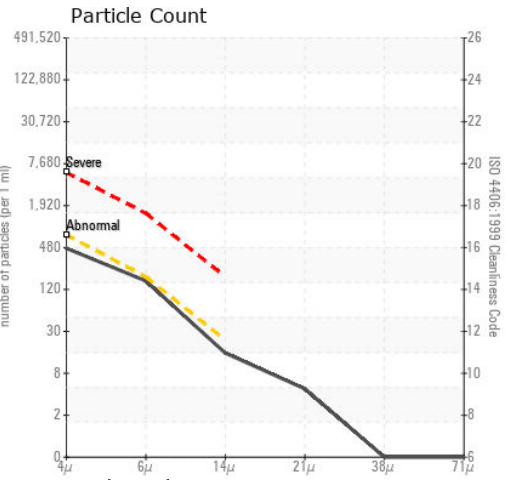
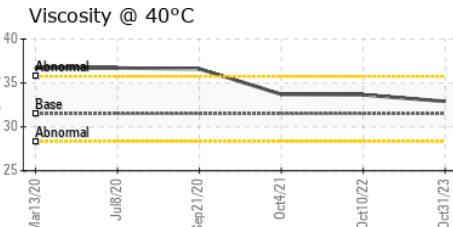
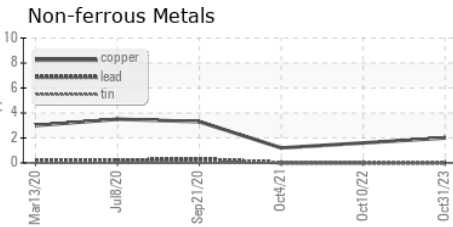
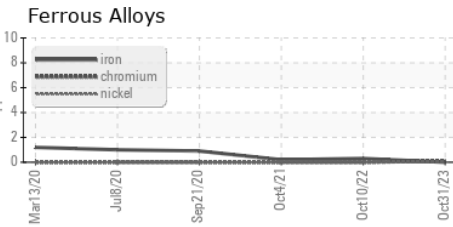
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	31.5	32.9	33.65

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. : WC0810910
 Lab Number : 05996647
 Unique Number : 10725007
 Test Package : IND 2

Michelin Americas Research Company
 515 Michelin Road
 Greenville, SC
 US 29605
 Contact: Vince Wilson
 vince.wilson@michelin.com
 T: (864)422-3913
 F: (864)422-3518

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)