



PROBLEM SUMMARY

Sample Rating Trend

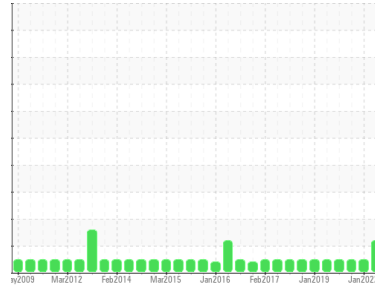
ISO



Machine Id
356.XX403 (S/N 356-403-29)

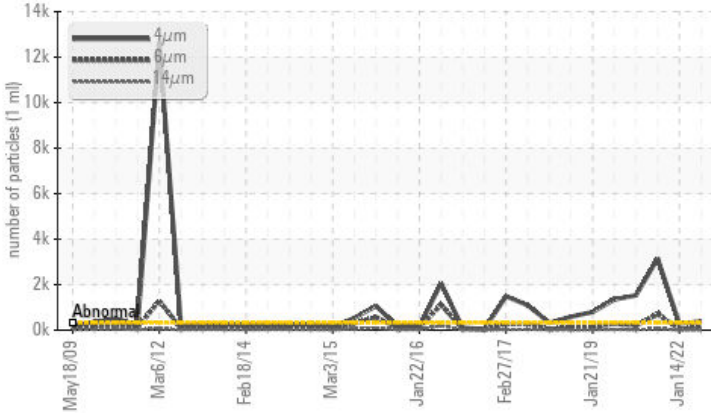
Component
Hydraulic System

Fluid
MOBIL DTE 10 EXCEL 46 (20 GAL)



COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

No corrective action is recommended at this time.
Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status			ATTENTION	NORMAL	NORMAL
Particles >4µm	ASTM D7647	>320	▲ 381	291	3144
Particles >6µm	ASTM D7647	>80	▲ 94	51	704
Oil Cleanliness	ISO 4406 (c)	>15/13/11	▲ 16/14/10	15/13/10	19/17/13

Customer Id: WEYNEW
Sample No.: WC0799242
Lab Number: 05808988
Test Package: AOM 1



To manage this report scan the QR code

To discuss the diagnosis or test data:
Doug Bogart +1 (800)237-1369 x4016
dougb@wearcheckusa.com

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

14 Jan 2022 Diag: Doug Bogart

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. MPC (Membrane Patch Colorimetry) test indicates acceptable levels of varnish present. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. Linear Sweep Voltammetry (RULER – ASTM D6971) testing indicates normal levels of anti-oxidants present in the oil. The condition of the oil is suitable for further service.

view report



29 Oct 2019 Diag: Jonathan Hester

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the component. The amount and size of particulates present in the system is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



09 Aug 2019 Diag: Jonathan Hester

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the component. The amount and size of particulates present in the system is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report





OIL ANALYSIS REPORT

Sample Rating Trend

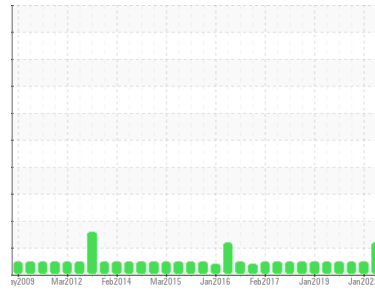
ISO



Machine Id
356.XX403 (S/N 356-403-29)

Component
Hydraulic System

Fluid
MOBIL DTE 10 EXCEL 46 (20 GAL)



DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. MPC (Membrane Patch Colorimetry) test indicates acceptable levels of varnish present.

Fluid Condition

Linear Sweep Voltammetry (RULER – ASTM D6971) testing indicates normal levels of anti-oxidants present in the oil. 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	WC0799242	RP0001030	RP0000999
Sample Date	Client Info	31 Mar 2023	14 Jan 2022	29 Oct 2019
Machine Age	yrs Client Info	0	0	0
Oil Age	yrs Client Info	0	0	6
Oil Changed	Client Info	N/A	N/A	Not Changd
Sample Status		ATTENTION	NORMAL	NORMAL

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >20	0	<1	1
Chromium	ppm ASTM D5185m >20	0	0	0
Nickel	ppm ASTM D5185m >20	0	0	0
Titanium	ppm ASTM D5185m	0	0	0
Silver	ppm ASTM D5185m	0	0	<1
Aluminum	ppm ASTM D5185m >20	0	0	0
Lead	ppm ASTM D5185m >20	0	0	<1
Copper	ppm ASTM D5185m >20	0	3	3
Tin	ppm ASTM D5185m >20	0	0	<1
Antimony	ppm ASTM D5185m	---	0	0
Vanadium	ppm ASTM D5185m	0	0	0
Cadmium	ppm ASTM D5185m	0	0	<1

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	0	0	<1
Barium	ppm ASTM D5185m	0	0	<1
Molybdenum	ppm ASTM D5185m	0	0	0
Manganese	ppm ASTM D5185m	<1	0	0
Magnesium	ppm ASTM D5185m	4	0	<1
Calcium	ppm ASTM D5185m	116	117	140
Phosphorus	ppm ASTM D5185m	445	547	818
Zinc	ppm ASTM D5185m	1	191	513
Sulfur	ppm ASTM D5185m	1906	3613	6232

CONTAMINANTS

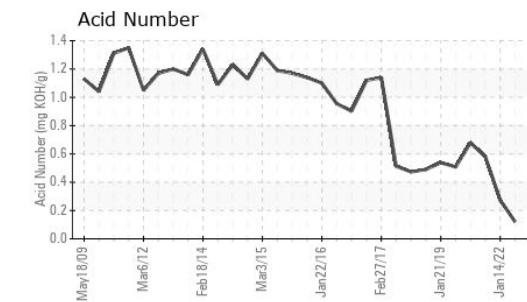
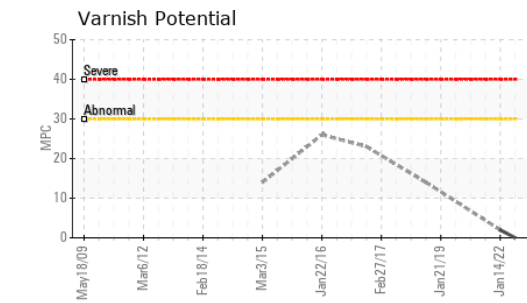
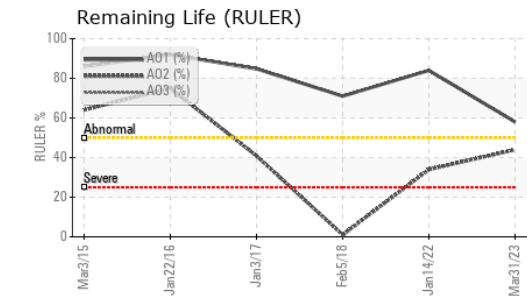
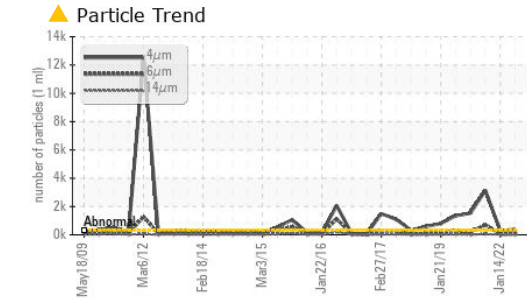
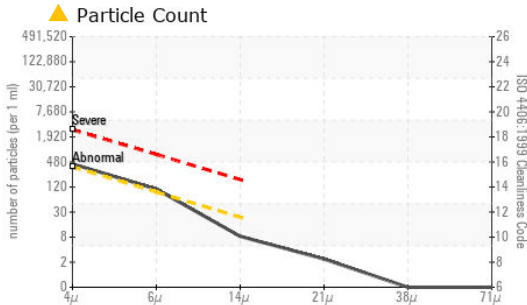
method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >15	<1	0	<1
Sodium	ppm ASTM D5185m	<1	<1	0
Potassium	ppm ASTM D5185m >20	0	0	<1
Water	% ASTM D6304 >0.05	0.007	0.006	0.018
ppm Water	ppm ASTM D6304 >500	71.6	67.0	184.1

FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >320	▲ 381	291	3144
Particles >6µm	ASTM D7647 >80	▲ 94	51	704
Particles >14µm	ASTM D7647 >20	7	7	55
Particles >21µm	ASTM D7647 >4	2	2	16
Particles >38µm	ASTM D7647 >3	0	0	1
Particles >71µm	ASTM D7647 >3	0	0	0
Oil Cleanliness	ISO 4406 (c) >15/13/11	▲ 16/14/10	15/13/10	19/17/13



OIL ANALYSIS REPORT



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0799242 **Received** : 03 Apr 2023
Lab Number : 05808988 **Diagnosed** : 14 Apr 2023
Unique Number : 10406517 **Diagnostician** : Doug Bogart
Test Package : AOM 1 (Additional Tests: KF)

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.

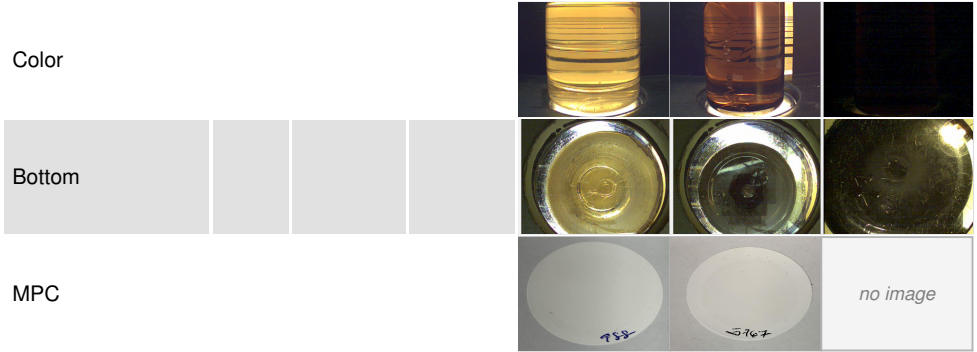
Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.12	0.273	0.581
Anti-Oxidant 1	%	ASTM D6971	<25	58	84	---
Anti-Oxidant 2	%	ASTM D6971	<25	44	34	---
MPC Varnish Potential	Scale	ASTM D7843	>15	0	2	---

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45.6	45.6	44.7	43.8

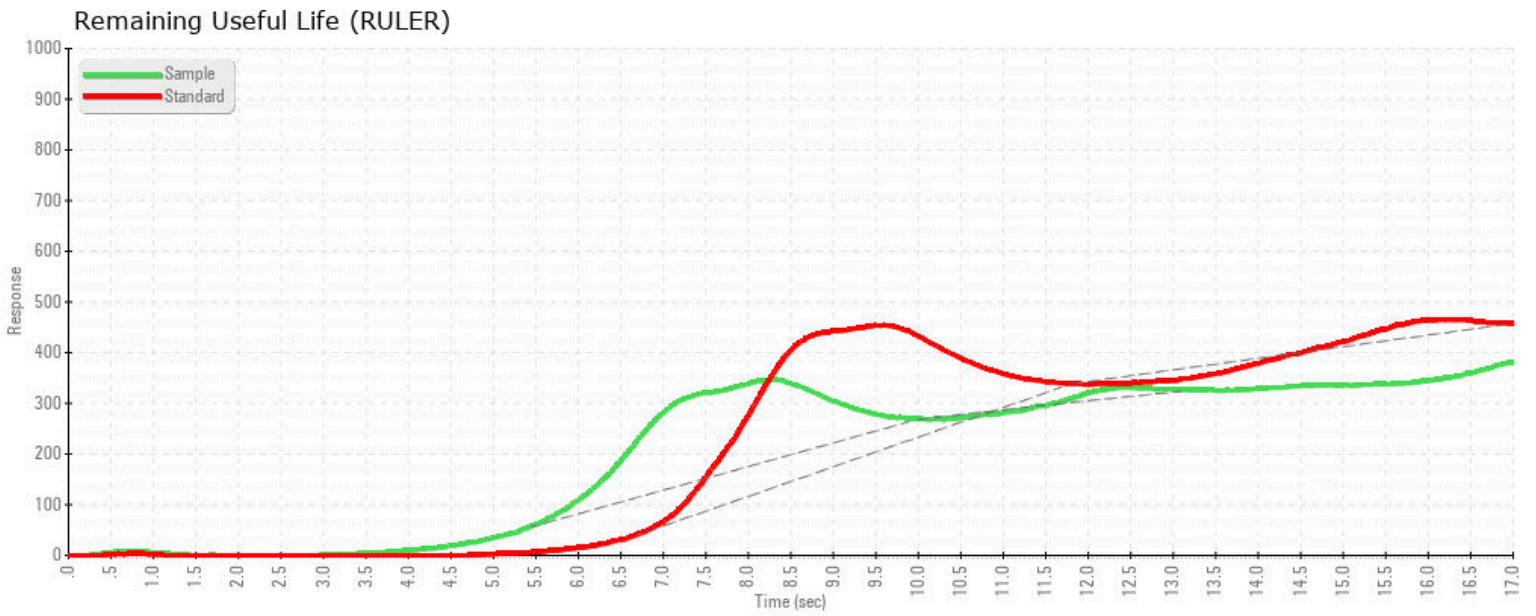
SAMPLE IMAGES		method	limit/base	current	history1	history2
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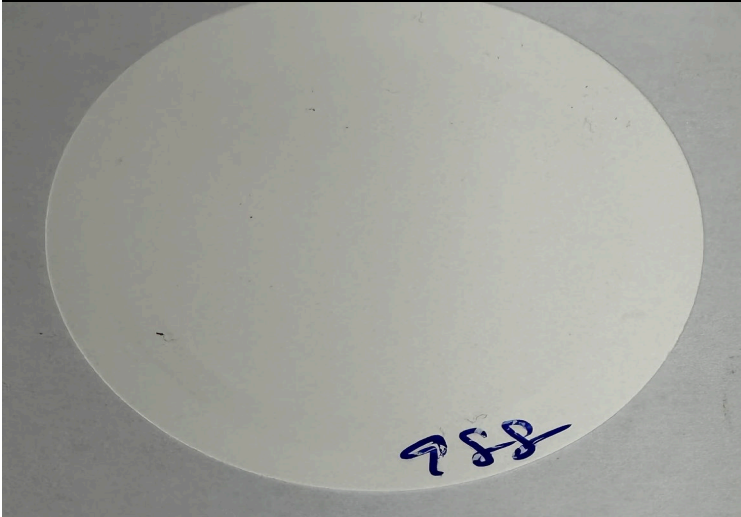
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MPC (Varnish Test)



Sample Color & Clarity



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