



PROBLEM SUMMARY

Sample Rating Trend

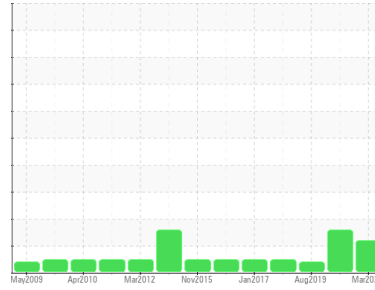
ISO



Machine Id
356.XX410 RECLAIM CHAIN

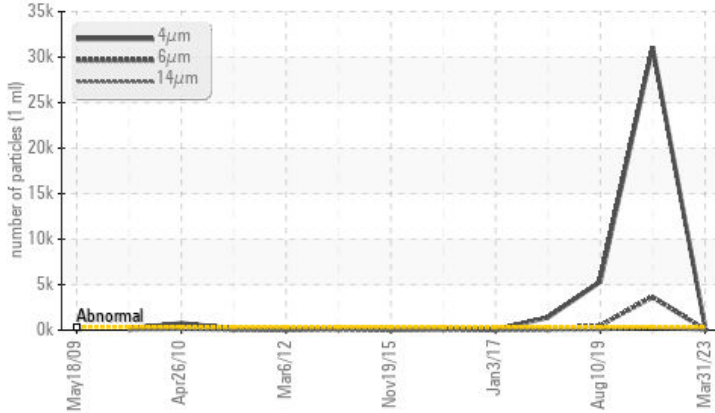
Component
Hydraulic System

Fluid
MOBIL DTE 10 EXCEL 46 (10 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	ABNORMAL	ATTENTION
Particles >4µm	ASTM D7647	>320	▲ 429	▲ 31096	▲ 5304
Particles >6µm	ASTM D7647	>80	▲ 97	▲ 3630	519
Oil Cleanliness	ISO 4406 (c)	>15/13/11	▲ 16/14/10	▲ 22/19/15	▲ 20/16/12

Customer Id: WEYNEW
Sample No.: WC0799244
Lab Number: 05808986
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

29 Oct 2019 Diag: Jonathan Hester

ISO



We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



10 Aug 2019 Diag: Doug Bogart

ISO



No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of silt (particulates < 6 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



05 Feb 2018 Diag: Doug Bogart

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. MPC (Membrane Patch Calorimetry) 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.

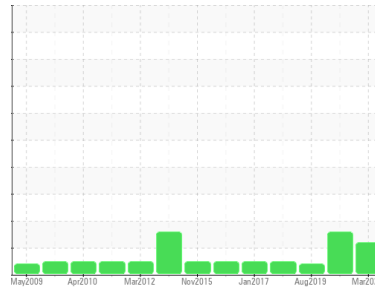
view report





OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id
356.XX410 RECLAIM CHAIN

Component
Hydraulic System

Fluid
MOBIL DTE 10 EXCEL 46 (10 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		WC0799244	RP0001037	RP0000987
Sample Date	Client Info		31 Mar 2023	29 Oct 2019	10 Aug 2019
Machine Age	mths	Client Info	0	0	0
Oil Age	mths	Client Info	0	1	3
Oil Changed	Client Info		N/A	Not Changd	Not Changd
Sample Status			ATTENTION	ABNORMAL	ATTENTION

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	0	4	8
Chromium	ppm	ASTM D5185m >20	0	0	0
Nickel	ppm	ASTM D5185m >20	0	<1	<1
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m	0	<1	<1
Aluminum	ppm	ASTM D5185m >20	0	0	<1
Lead	ppm	ASTM D5185m >20	0	<1	2
Copper	ppm	ASTM D5185m >20	0	13	20
Tin	ppm	ASTM D5185m >20	0	<1	<1
Antimony	ppm	ASTM D5185m	---	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	<1	<1
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0
Manganese	ppm	ASTM D5185m	<1	0	<1
Magnesium	ppm	ASTM D5185m	4	<1	<1
Calcium	ppm	ASTM D5185m	116	115	122
Phosphorus	ppm	ASTM D5185m	456	559	774
Zinc	ppm	ASTM D5185m	2	134	474
Sulfur	ppm	ASTM D5185m	2020	2548	6095

CONTAMINANTS

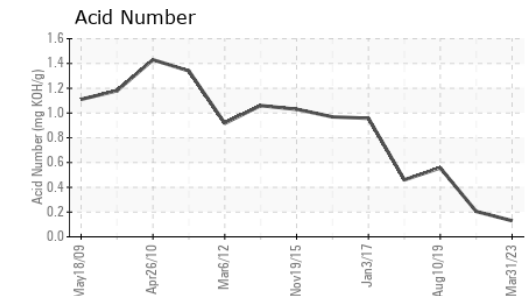
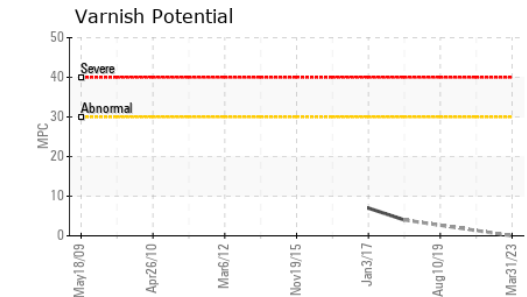
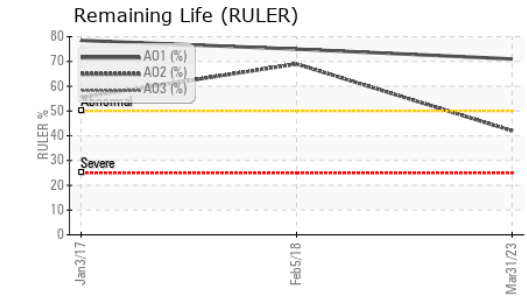
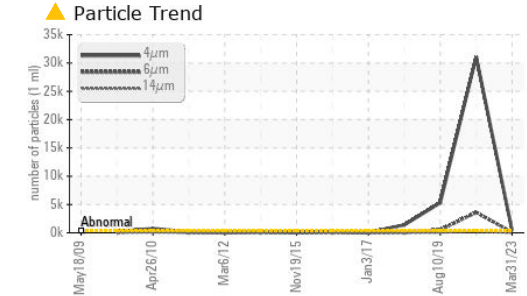
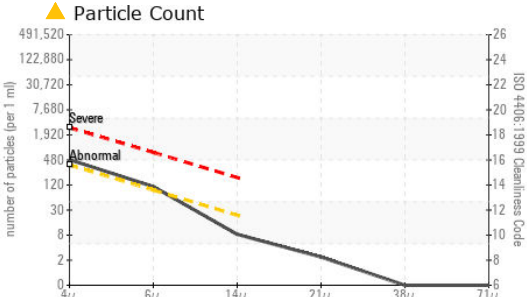
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	<1	2	1
Sodium	ppm	ASTM D5185m	<1	<1	<1
Potassium	ppm	ASTM D5185m >20	0	0	0
Water	%	ASTM D6304 >0.05	0.013	0.009	0.021
ppm Water	ppm	ASTM D6304 >500	130.8	94.2	213.6

FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>320	▲ 429	▲ 31096	▲ 5304
Particles >6µm	ASTM D7647	>80	▲ 97	▲ 3630	519
Particles >14µm	ASTM D7647	>20	7	▲ 228	40
Particles >21µm	ASTM D7647	>4	2	▲ 84	10
Particles >38µm	ASTM D7647	>3	0	10	1
Particles >71µm	ASTM D7647	>3	0	0	0
Oil Cleanliness	ISO 4406 (c)	>15/13/11	▲ 16/14/10	▲ 22/19/15	▲ 20/16/12



OIL ANALYSIS REPORT



FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.13	0.205	0.557
Anti-Oxidant 1	%	ASTM D6971	<25	71	---	---
Anti-Oxidant 2	%	ASTM D6971	<25	42	---	---
MPC Varnish Potential	Scale	ASTM D7843	>15	0	---	---

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	45.3	49.0	43.0

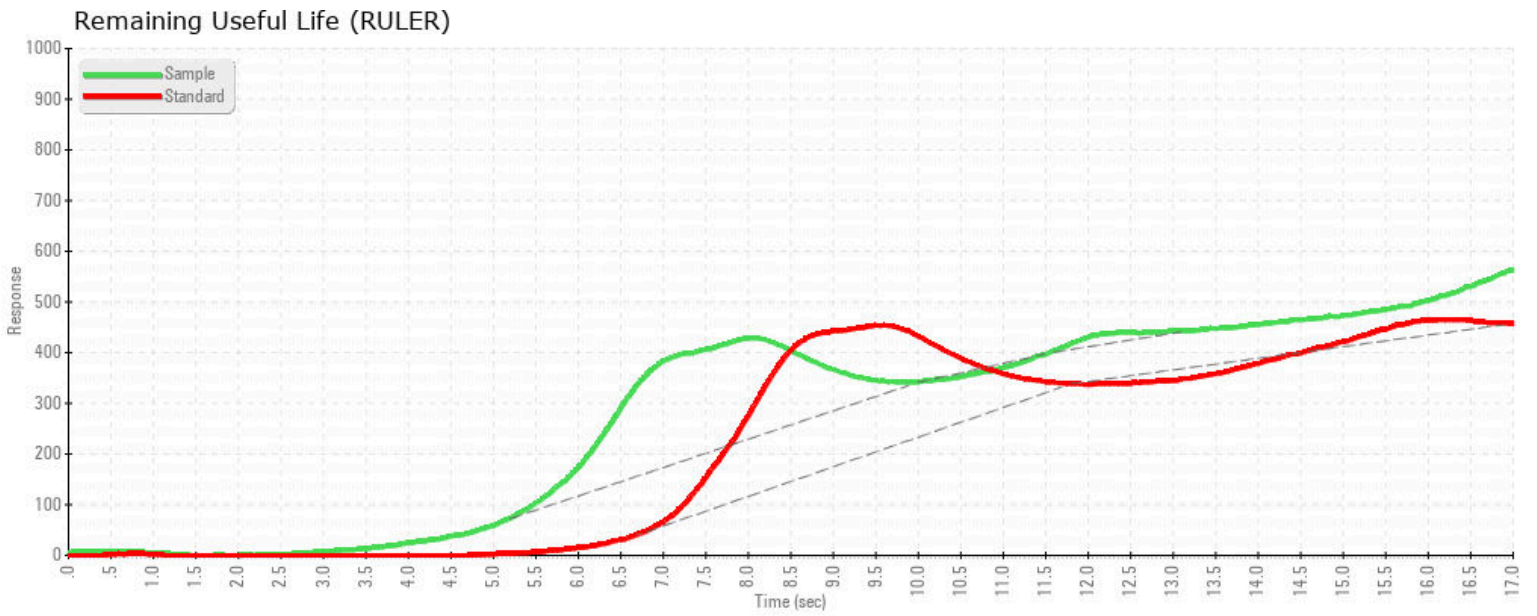
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						
Bottom						
MPC					no image	no image



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0799244 **Received** : 03 Apr 2023
Lab Number : **05808986** **Diagnosed** : 14 Apr 2023
Unique Number : 10406515 **Diagnostician** : Doug Bogart
Test Package : AOM 1 (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)

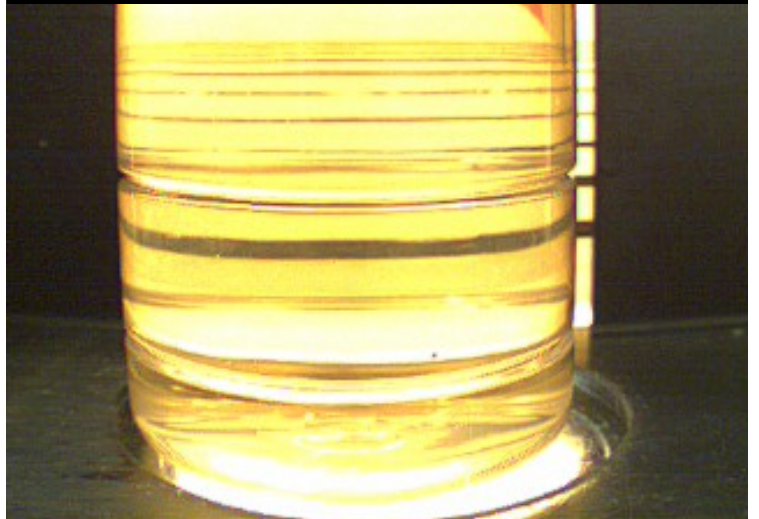
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MPC (Varnish Test)



Sample Color & Clarity



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