



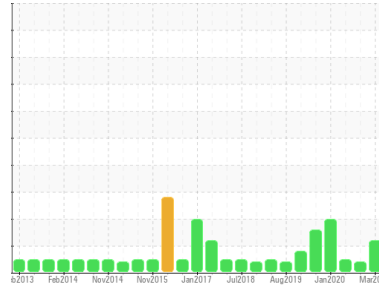
PROBLEM SUMMARY

Sample Rating Trend

INSOLUBLES

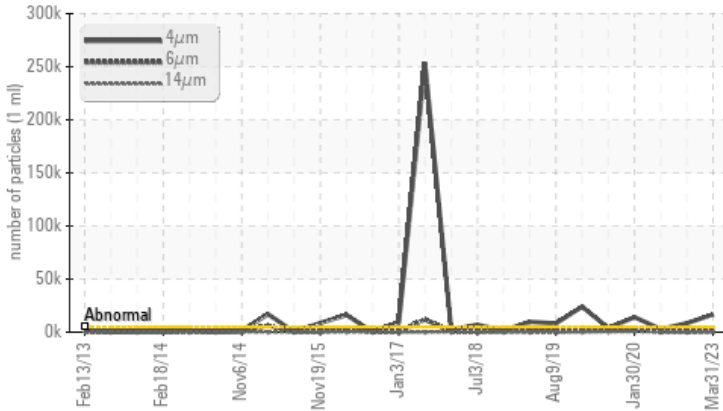


Machine Id
361.XX030 HYDRAULIC TRUCK DUMP (S/N 361-030-29)
Component
Hydraulic System
Fluid
MOBIL DTE 10 EXCEL 32 (--- GAL)

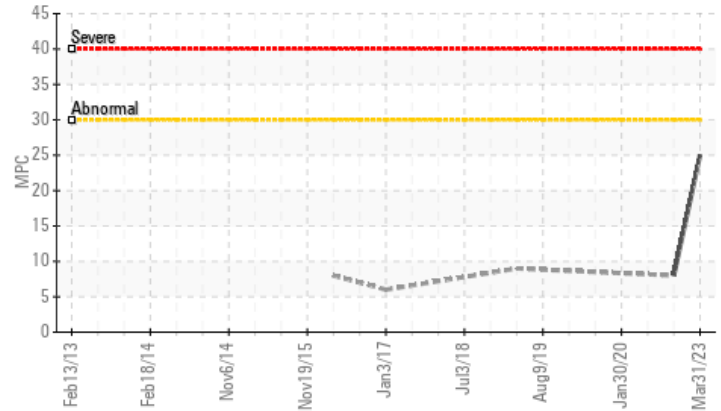


COMPONENT CONDITION SUMMARY

▲ Particle Trend



▲ Varnish Potential



RECOMMENDATION

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

PROBLEMATIC TEST RESULTS

Sample Status			ABNORMAL	ATTENTION	NORMAL	
Particles >4µm	ASTM D7647	>5000	▲ 16589	▲ 8443	2885	
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 21/17/12	▲ 20/15/11	19/15/12	
MPC Varnish Potential	Scale	ASTM D7843	>15	▲ 25	8	---

Customer Id: WEYNEW
Sample No.: WC0799238
Lab Number: 05808989
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

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. MPC (Membrane Patch Colorimetry) test indicates acceptable levels of varnish present. 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



10 Mar 2020 Diag: Don Baldrige

NORMAL



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

view report



30 Jan 2020 Diag: Don Baldrige

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.

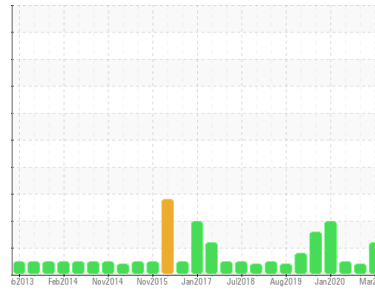
view report





OIL ANALYSIS REPORT

Sample Rating Trend



INSOLUBLES



Machine Id
361.XX030 HYDRAULIC TRUCK DUMP (S/N 361-030-29)

Component
Hydraulic System

Fluid
MOBIL DTE 10 EXCEL 32 (--- 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 high amount of silt (particulates <6 microns in size) present in the oil. MPC (Membrane Patch Colorimetry) test indicates a moderate concentration 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		WC0799238	RP0001022	RP
Sample Date	Client Info		31 Mar 2023	14 Jan 2022	10 Mar 2020
Machine Age	wks	Client Info	0	0	0
Oil Age	wks	Client Info	0	0	0
Oil Changed	Client Info		N/A	N/A	N/A
Sample Status			ABNORMAL	ATTENTION	NORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	2	13	13
Chromium	ppm	ASTM D5185m >20	3	37	33
Nickel	ppm	ASTM D5185m >20	0	0	<1
Titanium	ppm	ASTM D5185m	0	<1	<1
Silver	ppm	ASTM D5185m	0	0	1
Aluminum	ppm	ASTM D5185m >20	0	1	<1
Lead	ppm	ASTM D5185m >20	7	6	4
Copper	ppm	ASTM D5185m >20	34	33	26
Tin	ppm	ASTM D5185m >20	<1	2	1
Antimony	ppm	ASTM D5185m	---	1	<1
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	0
Molybdenum	ppm	ASTM D5185m	0	0	0
Manganese	ppm	ASTM D5185m	<1	<1	<1
Magnesium	ppm	ASTM D5185m	4	<1	1
Calcium	ppm	ASTM D5185m 120	114	121	127
Phosphorus	ppm	ASTM D5185m 475	419	453	488
Zinc	ppm	ASTM D5185m	71	686	650
Sulfur	ppm	ASTM D5185m 1275	1606	5346	5121

CONTAMINANTS

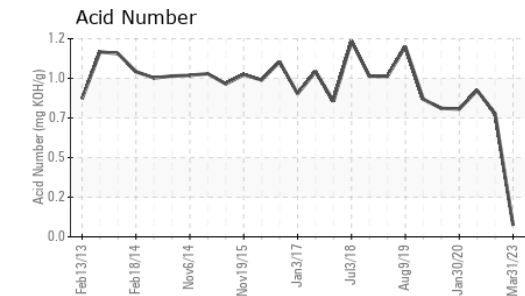
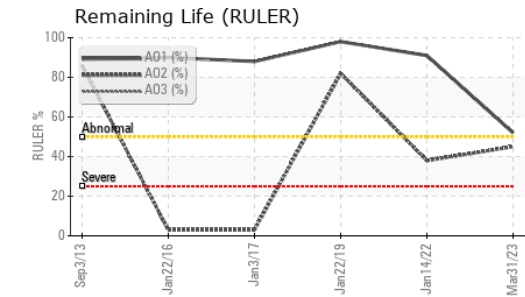
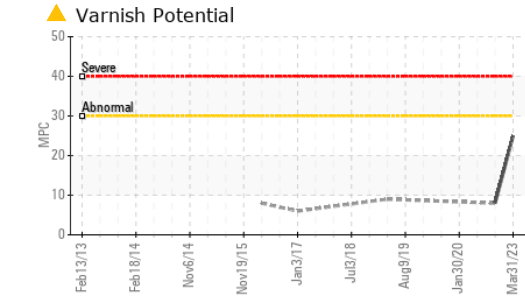
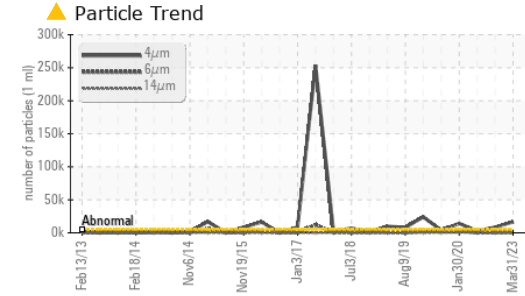
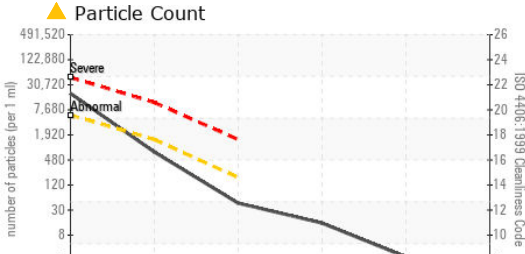
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	1	10	9
Sodium	ppm	ASTM D5185m	2	4	4
Potassium	ppm	ASTM D5185m >20	<1	0	<1
Water	%	ASTM D6304 >0.05	0.005	0.017	0.018
ppm Water	ppm	ASTM D6304 >500	55.9	179.5	181.2

FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	▲ 16589	▲ 8443	2885
Particles >6µm	ASTM D7647	>1300	655	199	257
Particles >14µm	ASTM D7647	>160	39	18	25
Particles >21µm	ASTM D7647	>40	13	4	8
Particles >38µm	ASTM D7647	>10	2	0	0
Particles >71µm	ASTM D7647	>3	0	0	0
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 21/17/12	▲ 20/15/11	19/15/12



OIL ANALYSIS REPORT



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0799238 **Received** : 03 Apr 2023
Lab Number : 05808989 **Diagnosed** : 14 Apr 2023
Unique Number : 10406518 **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)

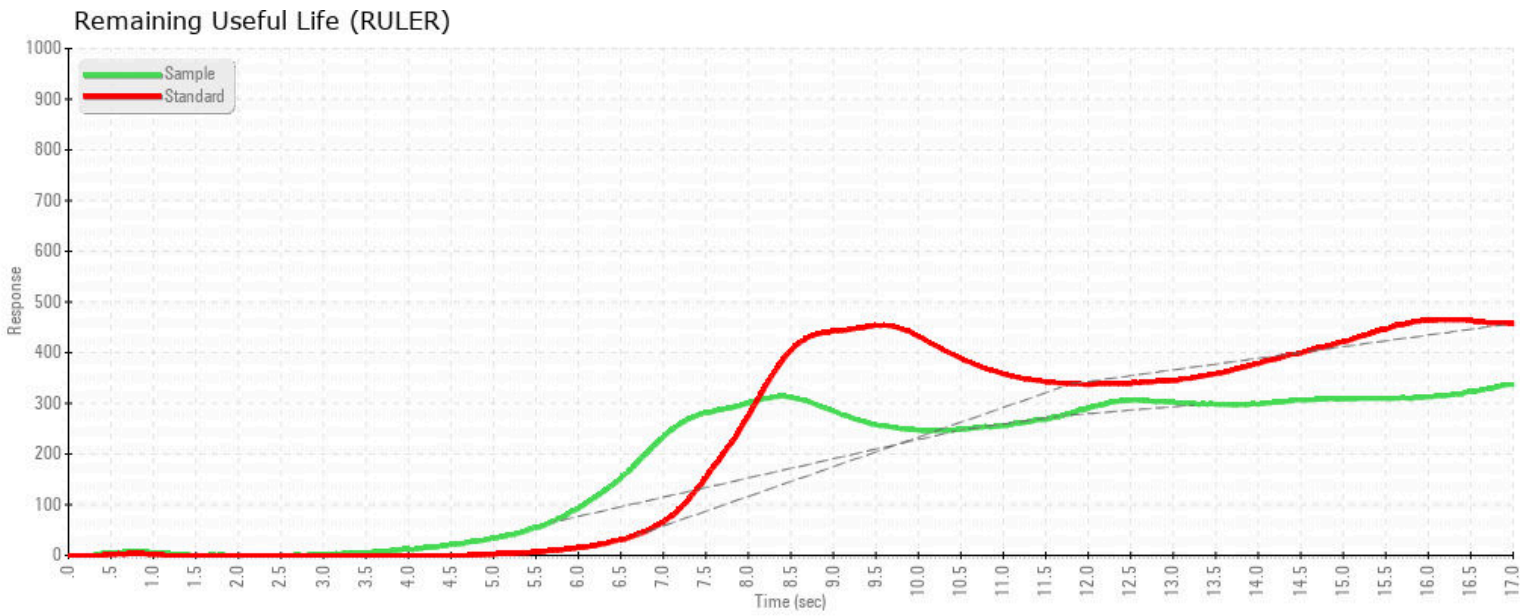
FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.07	0.745	0.887
Anti-Oxidant 1	%	ASTM D6971	52	91	---
Anti-Oxidant 2	%	ASTM D6971	45	38	---
MPC Varnish Potential	Scale	ASTM D7843	▲ 25	8	---

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	VLITE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	NEG	NEG	NEG
Free Water	scalar	*Visual	NEG	NEG	NEG

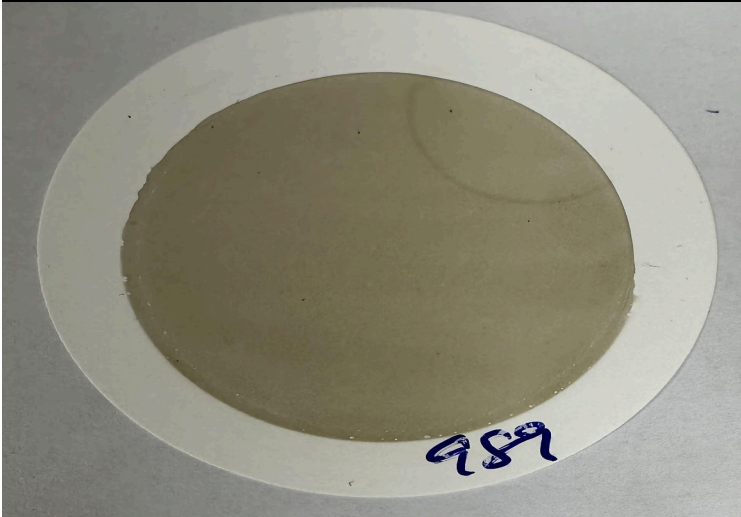
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	36.4	34.0	33.1

SAMPLE IMAGES

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



MPC (Varnish Test)



Sample Color & Clarity



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