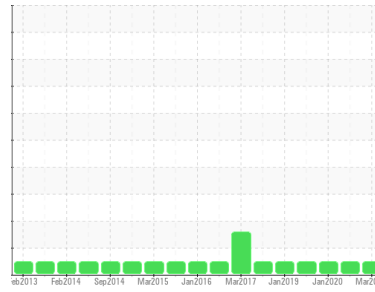




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
356-410 HYDRAULIC RECLAIM CHAIN TENSION (S/N 356-410-29)
 Component
Hydraulic System
 Fluid
MOBIL DTE 10 EXCEL 46 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please submit a sample of the new (unused) oil to verify and confirm current baseline.

Wear

All component wear rates are normal.

Contamination

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.

Fluid Condition

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.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC0432363	RP0001021	RP0000848
Sample Date	Client Info	28 Mar 2024	14 Jan 2022	31 Jan 2020
Machine Age	mths	Client Info	0	0
Oil Age	mths	Client Info	0	3
Oil Changed	Client Info	N/A	N/A	Not Changd
Sample Status		NORMAL	NORMAL	NORMAL

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >20	7	5	3
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	1	1
Copper	ppm	ASTM D5185m >20	37	36	19
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	0	0
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0
Manganese	ppm	ASTM D5185m	0	<1	<1
Magnesium	ppm	ASTM D5185m	0	0	0
Calcium	ppm	ASTM D5185m	110	109	110
Phosphorus	ppm	ASTM D5185m	582	542	521
Zinc	ppm	ASTM D5185m	176	196	136
Sulfur	ppm	ASTM D5185m	4493	3748	3446

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >15	0	<1	<1
Sodium	ppm	ASTM D5185m	2	<1	<1
Potassium	ppm	ASTM D5185m >20	0	0	<1
Water	%	ASTM D6304 >0.05	0.008	0.004	0.005
ppm Water	ppm	ASTM D6304 >500	84	48.5	55.0

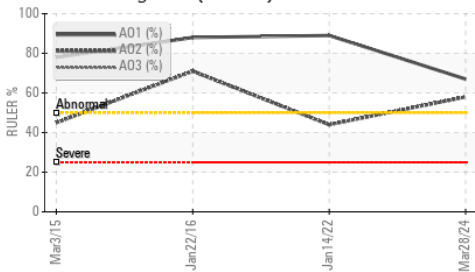
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	1977	3285	823
Particles >6µm	ASTM D7647 >1300	551	342	151
Particles >14µm	ASTM D7647 >160	52	18	18
Particles >21µm	ASTM D7647 >40	16	5	5
Particles >38µm	ASTM D7647 >10	1	0	0
Particles >71µm	ASTM D7647 >3	0	0	0
Oil Cleanliness	ISO 4406 (c) >19/17/14	18/16/13	19/16/11	17/14/11

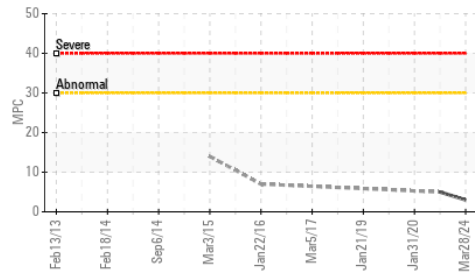


OIL ANALYSIS REPORT

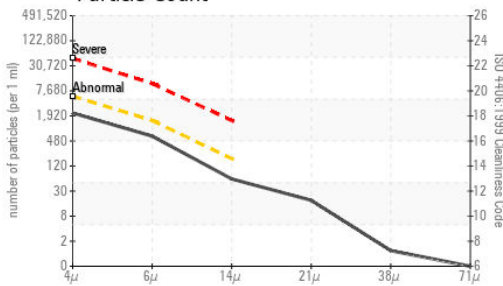
Remaining Life (RULER)



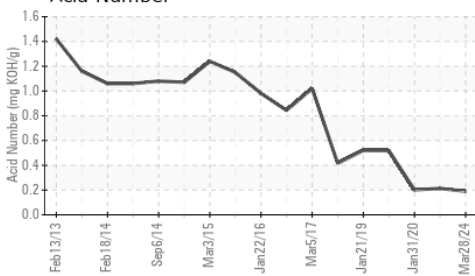
Varnish Potential



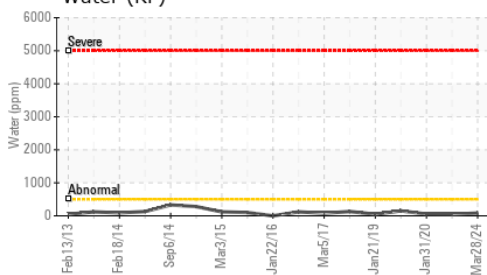
Particle Count



Acid Number



Water (KF)



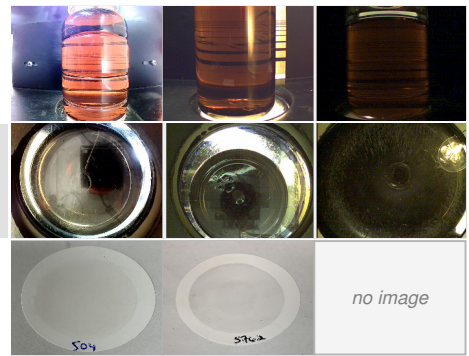
FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.19	0.213	0.201
Anti-Oxidant 1	%	ASTM D6971	67	89	---
Anti-Oxidant 2	%	ASTM D6971	58	44	---
MPC Varnish Potential	Scale	ASTM D7843	3	5	---

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	NEG	NEG	NEG
Free Water	scalar	*Visual	NEG	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	44.5	45.0	47.9

SAMPLE IMAGES

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



Certificate L2367

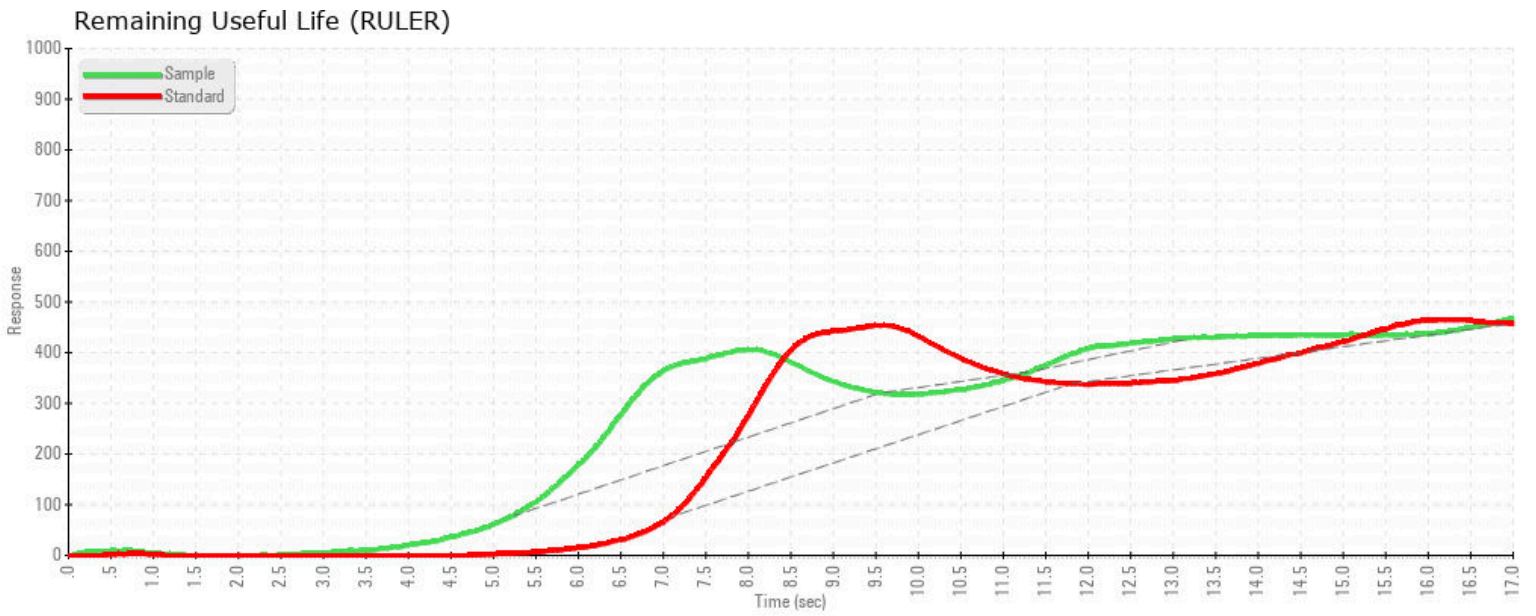
Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : WC0432363
 Lab Number : **06137504**
 Unique Number : 10956969
 Test Package : AOM 1 (Additional Tests: KF)
 Received : 03 Apr 2024
 Tested : 12 Apr 2024
 Diagnosed : 12 Apr 2024 - Doug Bogart

INTERNATIONAL PAPER
 1785 Weyerhaeuser Road
 VANCEBORO, NC
 US 28586
 Contact: DOUG WEIR
 Doug.Weir@ipaper.com;jon.fazenbaker@wearcheck.com
 T: (252)633-7350
 F: (252)633-7761

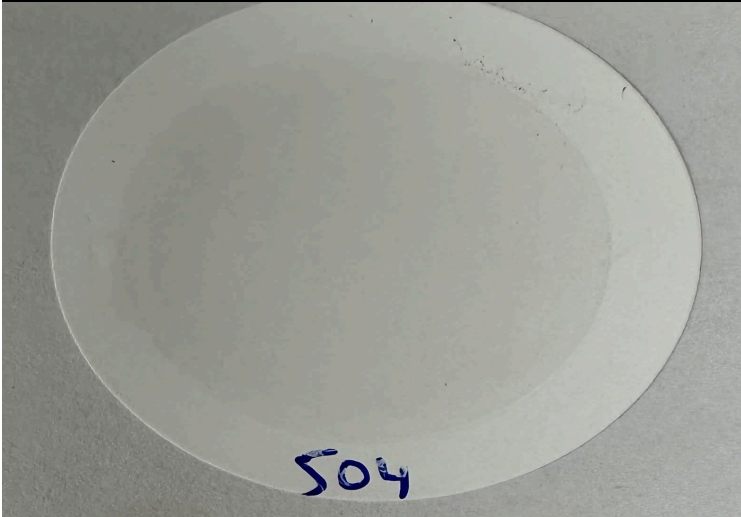
To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - 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)



MPC (Varnish Test)



Sample Color & Clarity



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