

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

360.XX100-29 HYDRAULIC BARKO (S/N 360-100-29)

Hydraulic System

MOBIL DTE 10 EXCEL 46 (250 GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component if applicable. 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

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

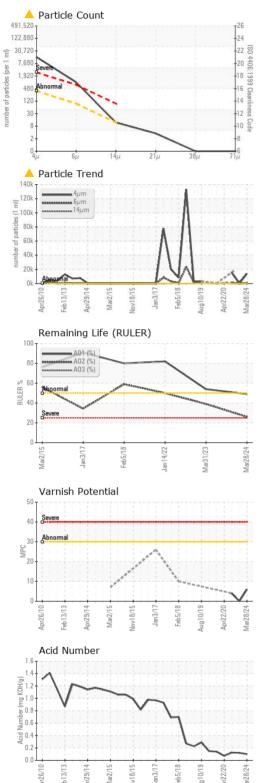
Fluid Condition

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.

и2010 Feb2013 App2014 Mas2015 Bev2015 Jan2017 Feb2016 App2015 App2020 Mas20								
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		WC0432364	WC0799243	RP0001025		
Sample Date		Client Info		28 Mar 2024	31 Mar 2023	14 Jan 2022		
Machine Age	mths	Client Info		0	0	0		
Oil Age	mths	Client Info		0	0	0		
Oil Changed		Client Info		N/A	N/A	N/A		
Sample Status				ABNORMAL	ATTENTION	ABNORMAL		
WEAR METALS		method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185m	>20	<1	0	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	0		
Copper	ppm	ASTM D5185m	>20	0	0	<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	0		
Manganese	ppm	ASTM D5185m		0	<1	0		
Magnesium	ppm	ASTM D5185m		0	4	0		
Calcium	ppm	ASTM D5185m		90	116	85		
Phosphorus	ppm	ASTM D5185m		185	449	416		
Zinc	ppm	ASTM D5185m		3	<1	16		
Sulfur	ppm	ASTM D5185m		909	1962	1500		
CONTAMINANTS		method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>15	0	<1	0		
Sodium	ppm	ASTM D5185m		<1	<1	<1		
Potassium	ppm	ASTM D5185m	>20	0	<1	0		
Water	%	ASTM D6304	>0.05	0.007	0.005	0.004		
ppm Water	ppm	ASTM D6304	>500	78	55.5	49.2		
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2		
Particles >4µm		ASTM D7647	>320	13842	407	<u> </u>		
Particles >6μm		ASTM D7647	>80	A 843	122	▲ 1318		
Particles >14μm		ASTM D7647	>10	10	1 5	<u>^</u> 21		
Particles >21µm		ASTM D7647	>3	3	4	3		
Particles >38µm		ASTM D7647	>3	0	1	0		
Particles >71µm		ASTM D7647	>3	0	0	0		
Oil Cleanliness		ISO 4406 (c)	>15/13/10	<u> </u>	16/14/11	21/18/12		



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FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.10	0.12	0.124
Anti-Oxidant 1	%	ASTM D6971	<25	49	54	82
Anti-Oxidant 2	%	ASTM D6971	<25	26	39	50
MPC Varnish Potential	Scale	ASTM D7843	>15	6	0	4
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 PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45.6	45.7	45.7	45.3
SAMPLE IMAGES	5	method	limit/base	current	history1	history2
Color						
Bottom						
MPC				507	992	SALLO





Certificate 12367

Sample No. Unique Number : 10956972

Laboratory Lab Number : 06137507

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0432364

Received : 03 Apr 2024 **Tested** : 12 Apr 2024 Diagnosed

: 12 Apr 2024 - 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.

Contact: DOUG WEIR Doug.Weir@ipaper.com;jon.fazenbaker@wearcheck.com T: (252)633-7350

INTERNATIONAL PAPER

1785 Weyerhaeuser Road

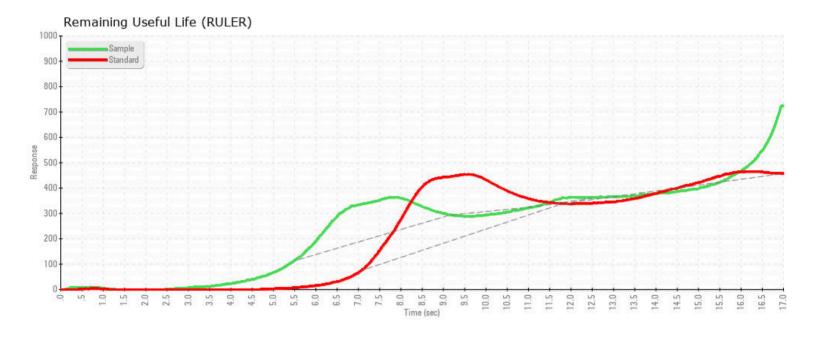
VANCEBORO, NC

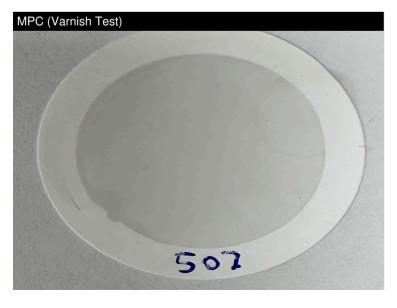
US 28586

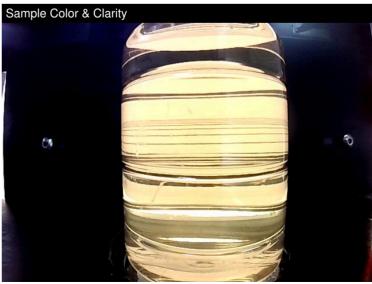
Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (252)633-7761

Report Id: WEYNEW [WUSCAR] 06137507 (Generated: 04/12/2024 13:07:47) Rev: 2

Contact/Location: DOUG WEIR - WEYNEW







Report Id: WEYNEW [WUSCAR] 06137507 (Generated: 04/12/2024 13:07:53) Rev: 2

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