

Machine Id

360.XX040-29 HYDRAULIC DRUM DOOR

Hydraulic System

MOBIL DTE 10 EXCEL 68 (10 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

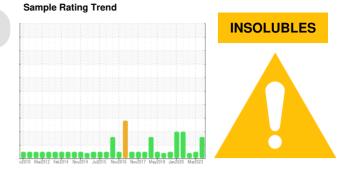
All component wear rates are normal.

Contamination

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

Fluid Condition

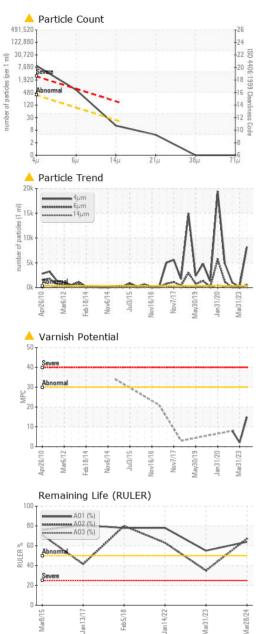
Linear Sweep Voltammetry (RULER - ASTM D6971) testing indicates normal levels of antioxidants present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

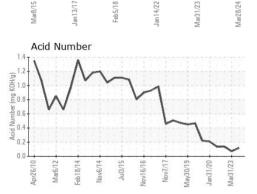


	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0432362	WC0799239	RP0001023
Sample Date		Client Info		28 Mar 2024	31 Mar 2023	14 Jan 2022
Machine Age	mths	Client Info		0	0	0
Oil Age	mths	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	3	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	0
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	<1
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	<1
Calcium	ppm	ASTM D5185m		112	121	101
Phosphorus	ppm	ASTM D5185m		463	464	397
Zinc	ppm	ASTM D5185m		2	0	13
Sulfur		ASTM D5185m		1748	1513	1597
	ppm	ASTIM D3103III		1/40	1010	1537
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		0	<1	<1
Silicon Sodium		ASTM D5185m ASTM D5185m	>15	0 3	<1 1	<1 1
Silicon Sodium Potassium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>15 >20	0	<1	<1
Silicon Sodium	ppm ppm	ASTM D5185m ASTM D5185m	>15 >20	0 3	<1 1	<1 1
Silicon Sodium Potassium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>15 >20	0 3 0	<1 1 <1	<1 1 0
Silicon Sodium Potassium Water	ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304	>15 >20 >0.05	0 3 0 0.009	<1 1 <1 0.005	<1 1 0 0.002
Silicon Sodium Potassium Water ppm Water	ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304	>15 >20 >0.05 >500	0 3 0 0.009 96	<1 1 <1 0.005 58.4	<1 1 0 0.002 19.7
Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN	ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 method	>15 >20 >0.05 >500 limit/base	0 3 0 0.009 96 current	<1 1 <1 0.005 58.4 history1	<1 1 0 0.002 19.7 history2
Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm	ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 method ASTM D7647	>15 >20 >0.05 >500 limit/base >320	0 3 0 0.009 96 current & 8212	<1 1 <1 0.005 58.4 history1 117	<1 1 0 0.002 19.7 history2 997
Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm	ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 Method ASTM D7647 ASTM D7647	>15 >20 >0.05 >500 limit/base >320 >80 >20	0 3 0 0.009 96 <u>current</u> ▲ 8212 ▲ 568	<1 1 <1 0.005 58.4 history1 117 22	<1 1 0 0.002 19.7 history2 § 997 77
Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 Method ASTM D7647 ASTM D7647 ASTM D7647	>15 >20 >0.05 >500 limit/base >320 >80 >20	0 3 0 0.009 96 <u>current</u> ▲ 8212 ▲ 568 11	<1 1 <1 0.005 58.4 history1 117 22 4	<1 1 0 0.002 19.7 history2 997 77 7
Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm	ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 Method ASTM D7647 ASTM D7647 ASTM D7647	>15 >20 >0.05 >500 limit/base >320 >80 >20 >20 >4 >3	0 3 0 0.009 96 <u>current</u> ▲ 8212 ▲ 568 11 4	<1 1 <1 0.005 58.4 history1 117 22 4 2	<1 1 0 0.002 19.7 history2 ▲ 997 77 7 2



OIL ANALYSIS REPORT

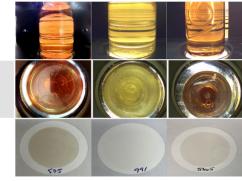




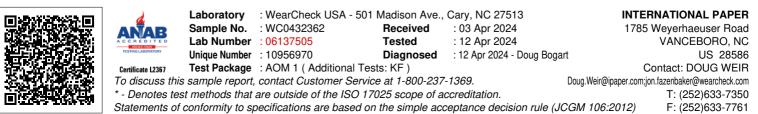
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FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.117	0.07	0.137
Anti-Oxidant 1	%	ASTM D6971	<25	64	55	78
Anti-Oxidant 2	%	ASTM D6971	<25	67	35	63
MPC Varnish Potential	Scale	ASTM D7843	>15	<mark>人</mark> 15	2	8
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	68.4	67.0	66.2	67.7
SAMPLE IMAGES	6	method	limit/base	current	history1	history2

Color

Bottom

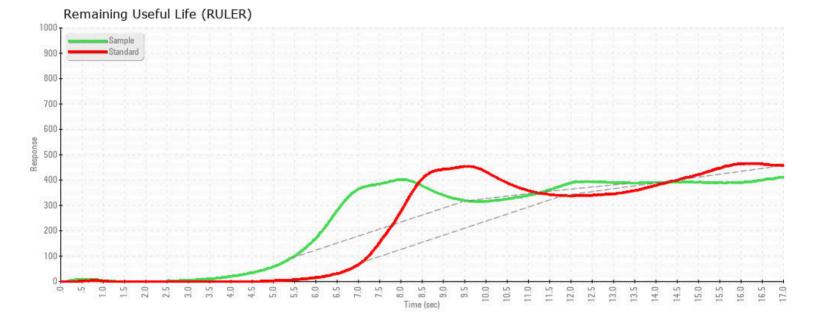


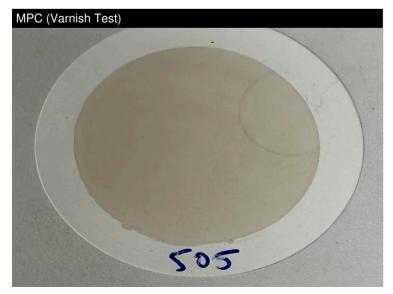
MPC



Contact/Location: DOUG WEIR - WEYNEW

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