

## **OIL ANALYSIS REPORT**

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ISO

Machine Id

356.XX403 (S/N 356-403-29)

Hydraulic System Fluid MOBIL DTE 10 EXCEL 46 (20 GAL)

#### DIAGNOSIS

#### Recommendation

No corrective action is recommended at this time. 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 moderate amount of silt (particulates < 14 microns in size) present in the oil. MPC (Membrane Patch Colorimetry) test indicates acceptable levels of varnish present.

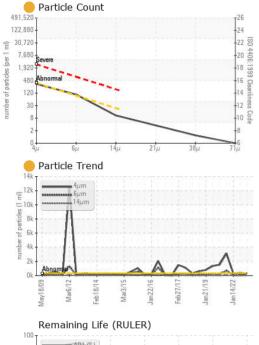
#### Fluid Condition

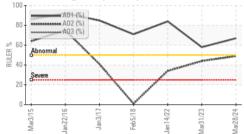
Linear Sweep Voltammetry (RULER – ASTM D6971) testing indicates normal levels of antioxidants present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

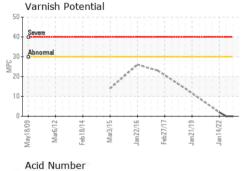
SAMPLE INFORM	ATION		limit/base		history1	history2
Sample Number		Client Info		RP0008489	WC0799242	RP0001030
Sample Date		Client Info		28 Mar 2024	31 Mar 2023	14 Jan 2022
Machine Age	yrs	Client Info		0	0	0
Oil Age	yrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ATTENTION	ATTENTION	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	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	3
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	ppm	method	limit/base	current	history1	history2
			iiiiii/base			
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		110	116	117
Phosphorus	ppm	ASTM D5185m		432	445	547
Zinc	ppm	ASTM D5185m		6	1	191
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	0	0
Water	%	ASTM D6304	>0.05	0.007	0.007	0.006
opm Water	ppm	ASTM D6304	>500	71	71.6	67.0
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>320	291	381	291
Particles >6µm		ASTM D7647	>80	90	94	51
		ASTM D7647	>20	9	7	7
Particles >14µm						
		ASTM D7647	>4	3	2	2
Particles >14μm Particles >21μm			>4 >3	3 1	2	2
Particles >14μm		ASTM D7647	>3			

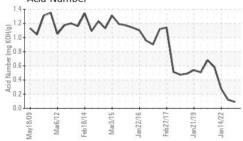


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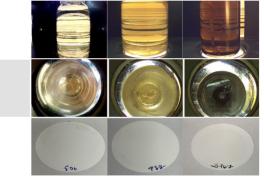




FLUID DEGRADA		mathad	limit/bass	ourropt	biotorut	history ()
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.09	0.12	0.273
Anti-Oxidant 1	%	ASTM D6971	<25	67	58	84
Anti-Oxidant 2	%	ASTM D6971	<25	49	44	34
MPC Varnish Potential	Scale	ASTM D7843	>15	0	0	2
VISUAL		method	limit/base	current	history1	history2
VISUAL		methou	IIIIII/base	Current	Thistory I	Thistory2
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
			Density (Inc. et al.		Internet.	la la tam O
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45.6	45.6	45.6	44.7
SAMPLE IMAGES	8	method	limit/base	current	history1	history2
					indicity i	

Color

Bottom



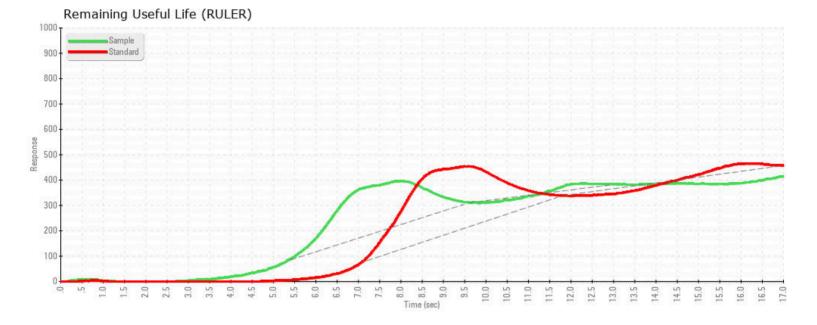
MPC

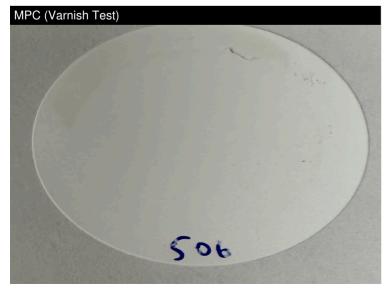


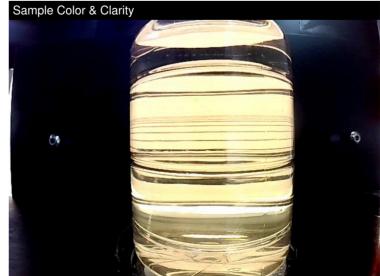
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Contact/Location: DOUG WEIR - WEYNEW

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Contact/Location: DOUG WEIR - WEYNEW
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