

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

F-06 Component Hydraulic System Fluid MOBIL DTE 10 EXCEL 32 (45 GAL)

DIAGNOSIS

A Recommendation

Re-sample to verify the actual oil condition. Replace filter elements. Change oil if cleanliness level does not improve after replacing the filter(s).

Wear

All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

The AN level is acceptable for this fluid.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		MHI026385	MHI021630	MHI017361
Sample Date		Client Info		05 Apr 2024	20 Apr 2023	03 Sep 2021
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<1	2	1
Chromium	ppm	ASTM D5185m	>20	0	<1	0
Nickel	ppm	ASTM D5185m	>20	<1	<1	<1
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	2	0
Lead	ppm	ASTM D5185m	>20	0	0	<1
Copper	ppm	ASTM D5185m	>20	0	<1	0
Tin	ppm	ASTM D5185m	>20	<1	0	0
Antimony	ppm	ASTM D5185m				<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	maa	ASTM D5185m		0	0	0
Barium	mag	ASTM D5185m		<1	0	0
Molvbdenum	ppm	ASTM D5185m		0	<1	0
Manganese	mag	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m		1	<1	0
Calcium	mag	ASTM D5185m	120	115	110	120
Phosphorus	mag	ASTM D5185m	475	453	425	472
Zinc	ppm	ASTM D5185m		28	<1	0
Sulfur	ppm	ASTM D5185m	1275	1576	1469	1156
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+30	2	<1	<1
Sodium	ppm	ASTM D5185m	2100	3	0	<1
Potassium	ppm	ASTM D5185m	>20	3	<1	<1
Water	%	ASTM D6304	>0.1	0.004	0.008	0.003
ppm Water	ppm	ASTM D6304	>1000	44	86	36.8
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4um		ASTM D7647	>5000	10178		3510
Particles >6um		ASTM D7647	>1300	1375		719
Particles >14um		ASTM D7647	>160	104		25
Particles >21um		ASTM D7647	>40	31		7
Particles >38um		ASTM D7647	>10	2		0
Particles >71um		ASTM D7647	>3	0		0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	1 21/18/14		19/17/12
FLUID DEGRADA	TION	method	limit/base	current	historv1	history2
Acid Number (AN)	ma KOH/a	ASTM D8045		0.188	0.093	0.121

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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
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	🔺 MODER	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	>0.1	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	32	32.4	32.3	32.6
SAMPLE IMAGES	;	method	limit/base	current	history1	history2
Color				•		
Bottom						



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