

Sample Rating Trend



Machine Id **F-10** Component Hydraulic System Fluid MOBIL DTE 10 EXCEL 32 (45 GAL)

DIAGNOSIS

DIAMOND WTG

ENGINEERING & SERVICES, INC.

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

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. The condition of the oil is suitable for further service.

		Feb 201	2 Apr2020	Aug2021 M	lay2023	
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		MHI021529	MHI019994	MHI022590
Sample Date		Client Info		22 May 2023	27 Aug 2021	21 Apr 2020
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				NORMAL	NORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	14	16	26
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>20	0	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	0	<1
Lead	ppm	ASTM D5185m	>20	- <1	1	2
Copper	ppm	ASTM D5185m	>20	<1	<1	2
Tin	ppm	ASTM D5185m	>20	0	0	<1
Antimony	ppm	ASTM D5185m			0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium		ASTM D5185m		0	0	0
	ppm					
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	<1	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		2	2	6
Calcium	ppm	ASTM D5185m	120	129	144	146
Phosphorus	ppm	ASTM D5185m	475	399	527	456
Zinc	ppm	ASTM D5185m		0	0	38
Sulfur	ppm	ASTM D5185m	1275	1533	1290	1395
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+30	<1	<1	2
Sodium	ppm	ASTM D5185m		0	2	3
Potassium	ppm	ASTM D5185m	>20	1	<1	<1
Water	%	ASTM D6304	>0.1	0.007	0.005	0.004
ppm Water	ppm	ASTM D6304	>1000	76	57.3	48.2
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		8071	9382	
Particles >6µm		ASTM D7647	>1300	511	700	
Particles >14µm		ASTM D7647	>160	37	65	
Particles >21µm		ASTM D7647	>40	12	21	
Particles >38µm		ASTM D7647	>10	1	0	
Particles >71µm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>/17/14	20/16/12	20/17/13	
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.174	0.04	0.176
33:25) Rev: 1	Contact/Location: WESLEY CAMPBELL - MITWHI					

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Water (ppm)

Water

OIL ANALYSIS REPORT





