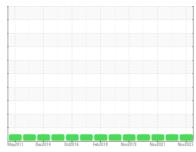


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id A109 Component Hydraulic Sys

Hydraulic System

MOBIL DTE 10 EXCEL 32 (43 GAL)

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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.

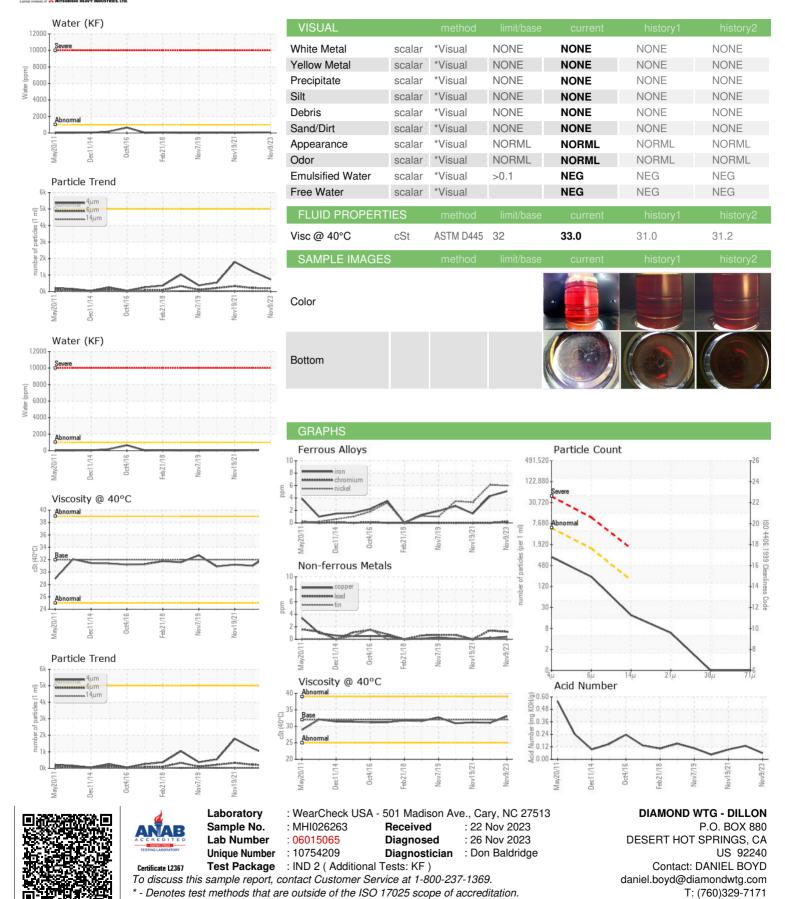
Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

		May2011	Jec2014 Oct2016	Feb 2018 Nov 2019 Nov 2021	Nov2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		MHI026263	MHI017170	MHI019130
Sample Date		Client Info		09 Nov 2023	17 Nov 2022	19 Nov 2021
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		92940	86700	80831
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	5	4	2
Chromium	ppm	ASTM D5185m	>20	<1	0	0
Nickel	ppm	ASTM D5185m	>20	6	6	3
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	0	0
Lead	ppm	ASTM D5185m	>20	1	1	0
Copper	ppm	ASTM D5185m	>20	<1	<1	0
Tin	ppm	ASTM D5185m	>20	0	<1	0
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	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		<1	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		<1	1	0
Calcium	ppm	ASTM D5185m	120	112	109	101
Phosphorus	ppm	ASTM D5185m	475	455	436	409
Zinc	ppm	ASTM D5185m		20	27	18
Sulfur	ppm	ASTM D5185m	1275	1441	1861	1186
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+30	<1	<1	0
Sodium	ppm	ASTM D5185m		<1	3	1
Potassium	ppm	ASTM D5185m	>20	<1	<1	0
Water	%	ASTM D6304	>0.1	0.006	0.005	0.002
ppm Water	ppm	ASTM D6304	>1000	65	55.4	18.9
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	738	1215	1793
Particles >6µm		ASTM D7647	>1300	203	214	327
Particles >14µm		ASTM D7647	>160	16	30	23
Particles >21µm		ASTM D7647	>40	5	12	3
Particles >38µm		ASTM D7647	>10	0	1	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	17/15/11	17/15/12	18/16/12
FLUID DEGRADA	TION	method	limit/base	current	history1	history2



OIL ANALYSIS REPORT



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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