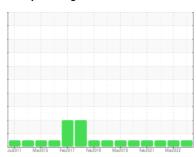


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id E309 Component

Hydraulic System

MOBIL DTE 10 EXCEL 32 (43 GAL)

DIAGNOSIS

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 component. The amount and size of particulates present in the system is acceptable.

Fluid Condition

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

		Jul2011 M	ar2015 Feb2017 Feb2	Marcolo 100E0E1	Mar2022	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		MHI018509	MHI017013	MHI017471
Sample Date		Client Info		15 Mar 2023	25 Mar 2022	24 Mar 2022
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		87033	84173	81450
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	2	6	2
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>20	5	4	3
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	<1	<1
Aluminum	ppm	ASTM D5185m	>20	<1	0	0
Lead	ppm	ASTM D5185m	>20	<1	<1	1
Copper	ppm	ASTM D5185m	>20	<1	<1	<1
Tin	ppm	ASTM D5185m	>20	0	<1	0
Antimony	ppm	ASTM D5185m				
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	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		<1	2	2
Calcium	ppm	ASTM D5185m	120	118	112	113
Phosphorus	ppm	ASTM D5185m	475	466	459	468
Zinc	ppm	ASTM D5185m		14	18	28
Sulfur	ppm	ASTM D5185m	1275	1744	1283	1520
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+30	<1	<1	0
Sodium	ppm	ASTM D5185m		2	<1	<1
Potassium	ppm	ASTM D5185m	>20	0	0	0
Water	%	ASTM D6304	>0.1	0.009	0.004	0.002
ppm Water	ppm	ASTM D6304	>1000	95.6	41.4	17.3
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>5000	851	557	897
Particles >6µm		ASTM D7647	>1300	261	117	319
Particles >14μm		ASTM D7647	>160	27	28	55
Particles >21µm		ASTM D7647	>40	5	10	14
Particles >38µm		ASTM D7647	>10	0	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	17/15/12	16/14/12	17/15/13
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2



OIL ANALYSIS REPORT

