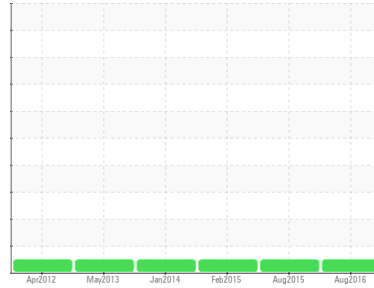


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
E-45
Component
Hydraulic System
Fluid
MOBIL DTE 10 (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.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			MHI005905	MHI148073	RP148094
Sample Date	Client Info			03 Aug 2016	05 Aug 2015	16 Feb 2015
Machine Age	hrs	Client Info		27322	21122	17793
Oil Age	hrs	Client Info		27322	0	0
Oil Changed	Client Info			N/A	N/A	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<1	2	3
Chromium	ppm	ASTM D5185m		0	<1	<1
Nickel	ppm	ASTM D5185m		<1	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m		<1	0	0
Lead	ppm	ASTM D5185m		1	0	2
Copper	ppm	ASTM D5185m		<1	4	3
Tin	ppm	ASTM D5185m		0	0	0
Antimony	ppm	ASTM D5185m		<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0

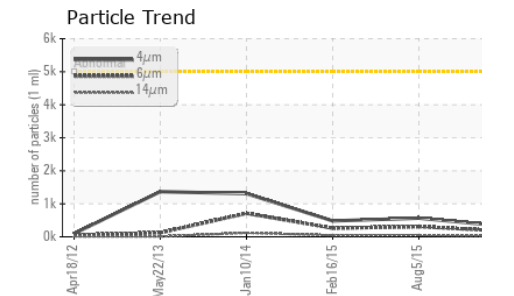
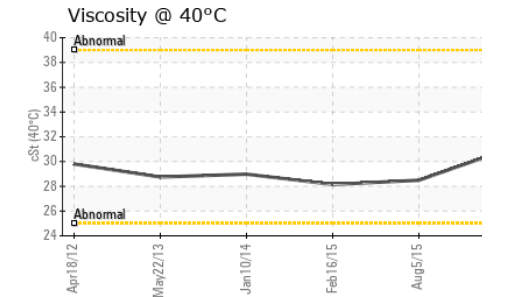
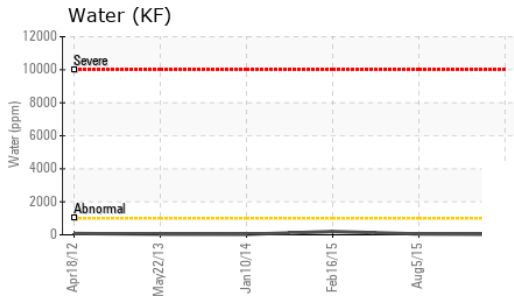
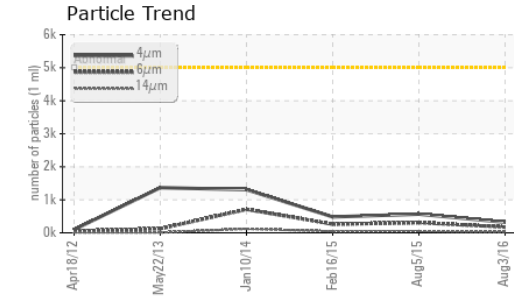
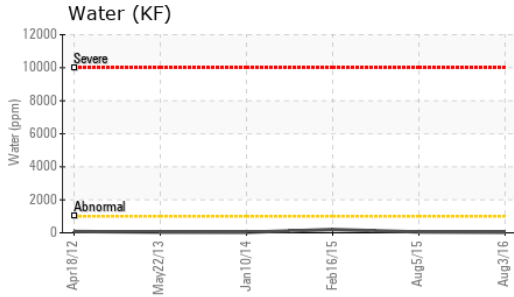
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<1	0	0
Barium	ppm	ASTM D5185m		16	0	87
Molybdenum	ppm	ASTM D5185m		0	0	<1
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m		<1	2	0
Calcium	ppm	ASTM D5185m		106	67	50
Phosphorus	ppm	ASTM D5185m		462	356	330
Zinc	ppm	ASTM D5185m		73	406	394
Sulfur	ppm	ASTM D5185m		2014	5030	4928

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+30	<1	8	2
Sodium	ppm	ASTM D5185m		4	1	9
Potassium	ppm	ASTM D5185m	>20	0	4	0
Water	%	ASTM D6304	>0.1	0.003	0.005	0.020
ppm Water	ppm	ASTM D6304	>1000	30	50	200

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	319	565	482
Particles >6µm		ASTM D7647	>1300	174	308	262
Particles >14µm		ASTM D7647	>160	29	52	44
Particles >21µm		ASTM D7647	>40	10	17	15
Particles >38µm		ASTM D7647	>10	1	2	2
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	15/15/12	16/15/13	16/15/13

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.219	0.371	0.423

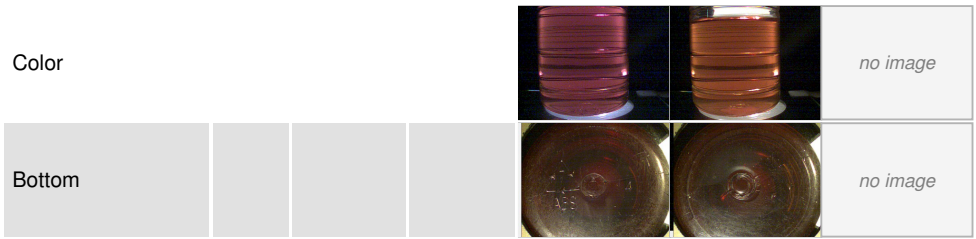
OIL ANALYSIS REPORT



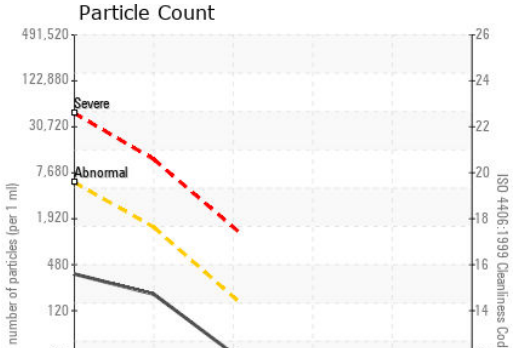
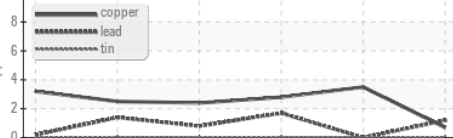
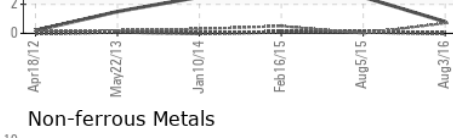
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	VLITE	VLITE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	30.92	28.49	28.15

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : MH1005905 **Received** : 26 Oct 2016
Lab Number : 04092482 **Diagnosed** : 27 Oct 2016
Unique Number : 7578134 **Diagnostician** : Don Baldrige
Test Package : IND 2 (Additional Tests: KF)

DIAMOND WTG - MOUNTAIN VIEW IV
P.O. BOX 880
DESERT HOT SPRINGS, CA
US 92240
Contact: SERVICE MANAGER

Certificate L2367
To discuss this sample report, contact Customer Service at 1-800-237-1369.
* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.
Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

T:
F: (760)329-7122