

PROBLEM SUMMARY

Area [AFTER FILTER] Machine Id OIL-RITE MRX II Component

Circulating System Fluid MOBIL SHC 630 (30 GAL)

COMPONENT CONDITION SUMMARY







RECOMMENDATION

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				SE	VERE	ABNORMAL	
Water	%	ASTM D6304			2.07	▲ 0.502	
ppm Water	ppm	ASTM D6304		•	20700	▲ 5020	
Debris	scalar	*Visual	NONE		MODER	NONE	
Appearance	scalar	*Visual	NORML		SOLID	🔺 SOLID	
Emulsified Water	scalar	*Visual			0.2%	▲ 0.2%	
Free Water	scalar	*Visual			10.0	1 0.0	
Visc @ 40°C	cSt	ASTM D445	217.7		58.02	▲ 57.02	
Visc @ 100°C	cSt	ASTM D445	25.9		11.6	1 0.8	

Customer Id: 3MBBRO Sample No.: TO60000781 Lab Number: 05850816 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 <u>jhester@wearcheckusa.com</u>

To change component or sample information: Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u>

RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description			
Resample	MISSED	Jul 06 2023	?	We recommend an early resample to monitor this condition.			
Check Water Access	MISSED	Jul 06 2023	?	We advise that you check for the source of water entry.			

HISTORICAL DIAGNOSIS



16 May 2023 Diag: Jonathan Hester

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.All component wear rates are normal. There is a moderate concentration of water present in the oil. Sample is layered with different type/density oil. The oil viscosity is lower than normal. Confirm oil type.





OIL ANALYSIS REPORT

Sample Rating Trend

WATER

Area [AFTER FILTER] Machine Id OIL-RITE MRX II

Circulating System Fluid MOBIL SHC 630 (30 GAL)

DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

There is a high concentration of water present in the oil. Sample is layered with different type/density oil.

Fluid Condition

The oil viscosity is lower than normal. Confirm oil type.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO60000781	TO60000779	
Sample Date		Client Info		17 May 2023	16 May 2023	
Machine Age	hrs	Client Info		16	16	
Oil Age	hrs	Client Info		1	1	
Oil Changed		Client Info		Changed	Changed	
Sample Status				SEVERE	ABNORMAL	
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		36	45	
Iron	ppm	ASTM D5185m		8	16	
Chromium	ppm	ASTM D5185m		<1	<1	
Nickel	ppm	ASTM D5185m		0	0	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m		0	0	
Lead	ppm	ASTM D5185m		<1	0	
Copper	ppm	ASTM D5185m		<1	<1	
Tin	ppm	ASTM D5185m		0	0	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	<1	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		0	<1	
Manganese	ppm	ASTM D5185m		<1	<1	
Magnesium	ppm	ASTM D5185m		1	<1	
Calcium	ppm	ASTM D5185m		<1	5	
Phosphorus	ppm	ASTM D5185m		9	20	
Zinc	ppm	ASTM D5185m		0	0	
Sulfur	ppm	ASTM D5185m		98	131	
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		15	14	
Sodium	ppm	ASTM D5185m		0	<1	
Potassium	ppm	ASTM D5185m	>20	<1	2	
Water	%	ASTM D6304		e 2.07	0.502	
ppm Water	ppm	ASTM D6304		e 20700	▲ 5020	
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	A MODER	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	🔺 SOLID	🔺 SOLID	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual		0.2%	▲ 0.2%	
Free Water	scalar	*Visual		10.0	▲ 10.0	

Contact/Location: RICKY GOTCHER - 3MBBRO



OIL ANALYSIS REPORT



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