

## **OIL ANALYSIS REPORT**

### Area [604346965 SR] CRMB REFINER 8 (S/N 20060182)

Hydraulic System

AW HYDRAULIC OIL ISO 68 (--- GAL)

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

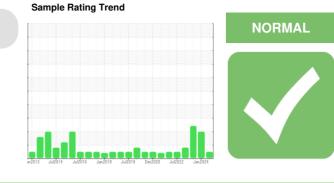
All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the 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.



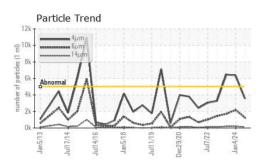
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0854380	WC0854129	WC0562486
Sample Date		Client Info		05 Jul 2024	04 Jan 2024	06 Jul 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	ATTENTION	ATTENTION
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.05	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	0	<1
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	0	1
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	0	0	<1
Tin	ppm		>20	2	<1	0
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	0	0	0
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	5	0	0	0
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	25	<1	<1	<1
Calcium	ppm	ASTM D5185m	200	0	6	4
Phosphorus	ppm	ASTM D5185m	300	247	267	220
Zinc	ppm	ASTM D5185m	370	17	50	6
Sulfur	ppm	ASTM D5185m	2500	2228	1780	2323
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	3	2	2
Sodium	ppm	ASTM D5185m		<1	0	0
Potassium	ppm	ASTM D5185m	>20	0	0	0
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	3557	6354	6473
Particles >6µm		ASTM D7647	>1300	1257	2181	1712
Particles >14µm		ASTM D7647	>160	107	209	189
Particles >21µm		ASTM D7647	>40	23	71	72
Particles >38µm		ASTM D7647	>10	2	9	<b>1</b> 1
Particles >71µm		ASTM D7647	>3	0	1	2
Oil Cleanliness		ISO 4406 (c)	>19/17/14	19/17/14	20/18/15	0/18/15
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.76	0.59	0.81
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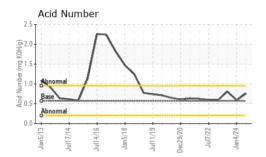
Report Id: MARSCHI [WUSCAR] 06237731 (Generated: 07/18/2024 11:25:48) Rev: 1

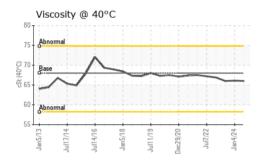
Contact/Location: TONY FIORE - MARSCHI Page 1 of 2

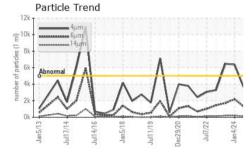


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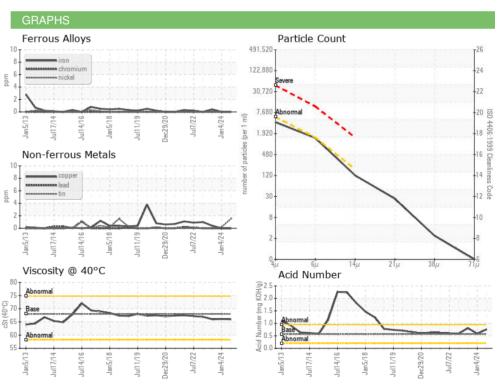








VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	68	66.0	66.1	66.0
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						
Bottom						



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 MARS CHOCOLATE Sample No. : WC0854380 Received : 16 Jul 2024 2019 NORTH OAK PARK Lab Number : 06237731 Tested : 17 Jul 2024 CHICAGO, IL US 60707 Unique Number : 11126565 Diagnosed : 18 Jul 2024 - Jonathan Hester Test Package : IND 2 Contact: TONY FIORE Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. tony.fiore@effem.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (773)745-2279 

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

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