

## **OIL ANALYSIS REPORT**

### [604063205 SR] Machine Id CRMB REFINER 1 (S/N 20059698)

Component Hydraulic System

AW HYDRAULIC OIL ISO 68 (--- GAL)

#### DIAGNOSIS

#### Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

#### Wear

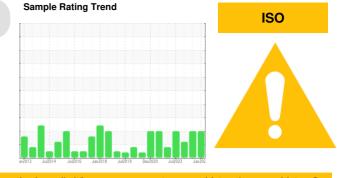
All component wear rates are normal.

#### Contamination

There is a high amount of particulates present in the oil.

#### Fluid Condition

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



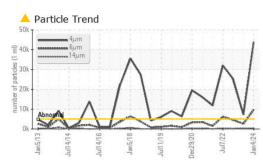
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0854122	WC0562493	WC0605358
Sample Date		Client Info		04 Jan 2024	06 Jul 2023	07 Jan 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
CONTAMINATION		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	6	0	4
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	<1	0
Lead	ppm	ASTM D5185m	>20	<1	0	0
Copper	ppm		>20	0	<1	0
Tin	ppm	ASTM D5185m	>20	0	<1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
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		<1	<1	0
Magnesium	ppm	ASTM D5185m	25	1	1	0
•	ppm	ASTM D5185m	200	2	3	<1
Phosphorus	ppm	ASTM D5185m	300	151	203	138
	ppm	ASTM D5185m	370	0	1	<1
	ppm	ASTM D5185m	2500	1853	2365	2290
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	2	2	2
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m	>20	<1	<1	0
FLUID CLEANLINE	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<b>4</b> 3827	▲ 7254	▲ 25265
Particles >6µm		ASTM D7647	>1300	<u> </u>	<b>A</b> 2615	<b>4</b> 567
Particles >14µm		ASTM D7647	>160	<b>4</b> 41	<b>A</b> 237	138
Particles >21µm		ASTM D7647	>40	<u> </u>	<u> </u>	27
Particles >38µm		ASTM D7647	>10	5	0	1
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>A</b> 23/20/16	▲ 20/19/15	▲ 22/19/14
FLUID DEGRADAT	ΓΙΟΝ	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.33	0.77	0.24
· · /						

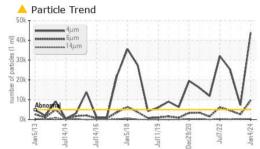
Report Id: MARSCHI [WUSCAR] 06064322 (Generated: 01/21/2024 10:38:20) Rev: 1

Contact/Location: TONY FIORE - MARSCHI

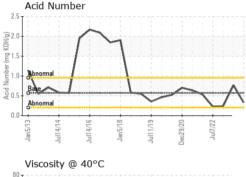


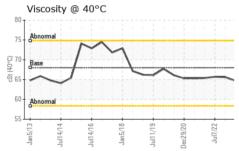
# **OIL ANALYSIS REPORT**



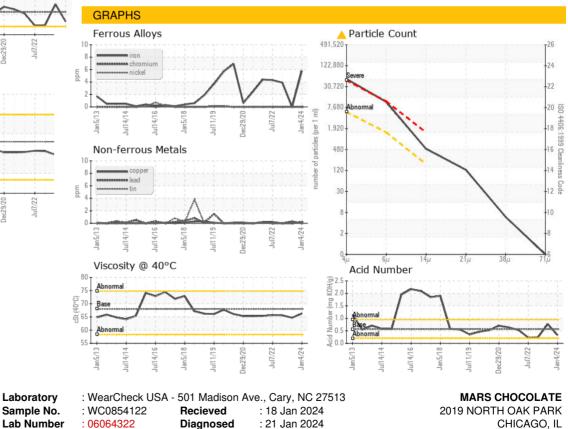


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	66.3	64.7	65.6
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
Color						





Bottom



CHICAGO, IL Diagnosed : 21 Jan 2024 Diagnostician : Don Baldridge US 60707 Contact: TONY FIORE tony.fiore@effem.com T: (773)745-2279

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)

: 10835704

Unique Number

Test Package : IND 2

F:



Đ

Contact/Location: TONY FIORE - MARSCHI