

OIL ANALYSIS REPORT

Area [604346963 SR] **CRMB REFINER 7 (S/N 20060132)**

Hydraulic System

AW HYDRAULIC OIL ISO 68 (--- GAL)

Recommendation

Resample at the next service interval to monitor.

Wear

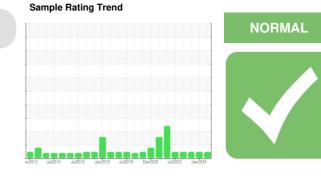
All component wear rates are normal.

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.



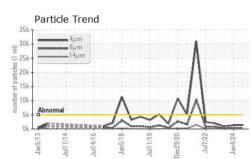
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0854381	WC0854128	WC0562490
Sample Date		Client Info		05 Jul 2024	04 Jan 2024	06 Jul 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
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	0
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	ASTM D5185m	>20	<1	<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	0	<1
Magnesium	ppm	ASTM D5185m	25	<1	<1	<1
Calcium	ppm	ASTM D5185m	200	0	8	<1
Phosphorus	ppm	ASTM D5185m	300	233	217	213
Zinc	ppm	ASTM D5185m	370	0	3	0
Sulfur	ppm	ASTM D5185m	2500	2243	1871	2354
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	2	2	2
Sodium	ppm	ASTM D5185m		<1	0	0
Potassium	ppm	ASTM D5185m	>20	0	<1	<1
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	1407	1344	844
Particles >6µm		ASTM D7647	>1300	343	286	168
Particles >14µm		ASTM D7647	>160	15	24	10
Particles >21µm		ASTM D7647	>40	3	5	2
Particles >38µm		ASTM D7647	>10	1	1	0
Particles >71µm		ASTM D7647	>3	1	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	18/16/11	18/15/12	17/15/10
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.79	0.72	0.79
1.05.14) Dov: 1				Contact/Loo		

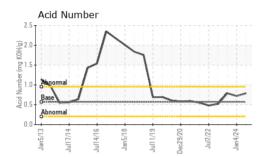
Report Id: MARSCHI [WUSCAR] 06237737 (Generated: 07/18/2024 14:25:44) Rev: 1

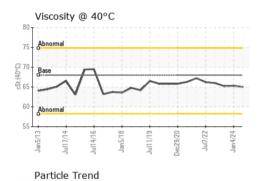
Contact/Location: TONY FIORE - MARSCHI

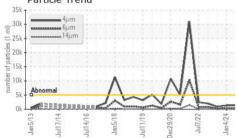


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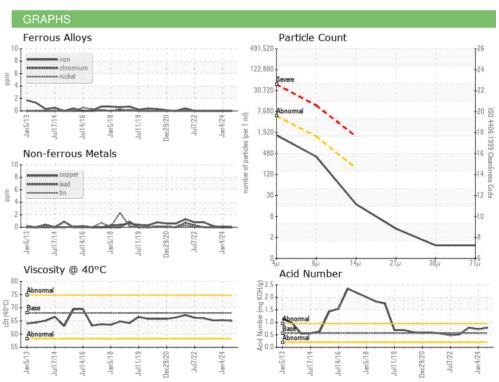








VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	65.0	65.3	65.2
SAMPLE IMAGES	\$	method	limit/base	current	history1	history2
Color					•	
Bottom						6



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 MARS CHOCOLATE Sample No. : WC0854381 Received : 16 Jul 2024 2019 NORTH OAK PARK Lab Number : 06237737 Tested : 17 Jul 2024 CHICAGO, IL US 60707 Unique Number : 11126571 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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