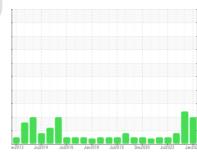


OIL ANALYSIS REPORT

[604063218 S/R] **CRMB REFINER 8 (S/N 20060182)**

Hydraulic System

AW HYDRAULIC OIL ISO 68 (--- GAL)



Sample Rating Trend



Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is a moderate 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.

m2013 Jud014 Jud016 Jun2018 Jud019 Dec2020 Jud022 Jun202						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0854129	WC0562486	WC0605713
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				ATTENTION	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	<1	0
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	0	0	0
Copper	ppm	ASTM D5185m	>20	0	<1	1
Tin	ppm	ASTM D5185m	>20	<1	0	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	<1
Calcium	ppm	ASTM D5185m	200	6	4	4
Phosphorus	ppm	ASTM D5185m	300	267	220	575
Zinc	ppm	ASTM D5185m	370	50	6	298
Sulfur	ppm	ASTM D5185m	2500	1780	2323	1770
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	2	2	1
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m		0	0	1
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	▲ 6354	▲ 6473	3269
Particles >6µm		ASTM D7647	>1300	2181	1712	1441
Particles >14µm		ASTM D7647	>160	▲ 209	▲ 189	130
Particles >21µm		ASTM D7647	>40	▲ 71	▲ 72	22
Particles >38µm		ASTM D7647	>10	9	▲ 11	2
•						
Particles >71μm		ASTM D7647		1	2	0
•		ASTM D7647 ISO 4406 (c)	>3 >19/17/14	1 2 0/18/15	2 2 20/18/15	0 ▲ 19/18/14

Acid Number (AN)

mg KOH/g ASTM D8045 0.57

0.81

0.59



OIL ANALYSIS REPORT







Laboratory

Sample No. Lab Number

Unique Number Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0854129 : 18 Jan 2024 Recieved : 06064315 Diagnosed : 21 Jan 2024 : 10835697 Diagnostician : Don Baldridge

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) MARS CHOCOLATE

2019 NORTH OAK PARK CHICAGO, IL US 60707

Contact: TONY FIORE tony.fiore@effem.com T: (773)745-2279

Contact/Location: TONY FIORE - MARSCHI