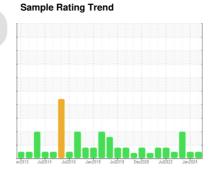


OIL ANALYSIS REPORT

[604346960 SR] **CRMB REFINER 4 (S/N 20059919)**

Hydraulic System

AW HYDRAULIC OIL ISO 68 (--- GAL)





Recommendation

Resample at the next service interval to monitor.

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.

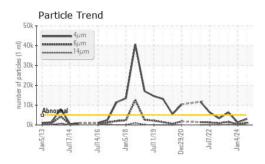
Fluid Condition

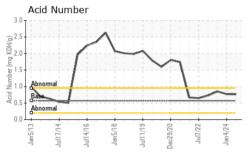
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

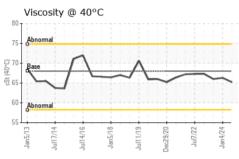
SAMPLE INFORM	4ATION	method	limit/base	ourront	history	hiotory?
	MATION		IIIIIIVDase		history1	history2
Sample Number		Client Info		WC0854384	WC0854125	WC0562487
Sample Date		Client Info		05 Jul 2024	04 Jan 2024	06 Jul 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		•		ū
Oil Changed		Cilent inio		Not Changd NORMAL	Not Changd NORMAL	Not Changd ATTENTION
Sample Status	,	and the sale	1::1://			
CONTAMINATION	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	2
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	0.5	0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	<1	<1
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	0	0	<1
Tin	ppm	ASTM D5185m	>20	0	<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	<1
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	25	0	2	<1
Calcium	ppm	ASTM D5185m	200	0	5	<1
Phosphorus	ppm	ASTM D5185m	300	242	208	213
Zinc	ppm	ASTM D5185m	370	11	5	0
Sulfur	ppm	ASTM D5185m	2500	2205	1857	2294
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	3	2	2
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m	>20	0	0	<1
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	3019	1319	6383
Particles >6µm		ASTM D7647	>1300	1086	318	1539
Particles >14μm		ASTM D7647	>160	102	16	166
Particles >21µm		ASTM D7647	>40	24	5	4 6
Particles >38μm		ASTM D7647	>10	2	1	4
Particles >71μm		ASTM D7647	>3	1	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	19/17/14	18/15/11	20/18/15
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

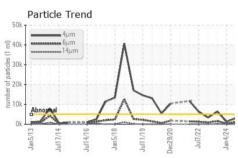


OIL ANALYSIS REPORT









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
ELLIID DBODEB	TIES	mothod	limit/baco	current	history1	history?
FLUID PROPER	ΓIES	method				history2

Visc @ 40°C	cSt	ASTM D445	68	65.2	66.3	66.0

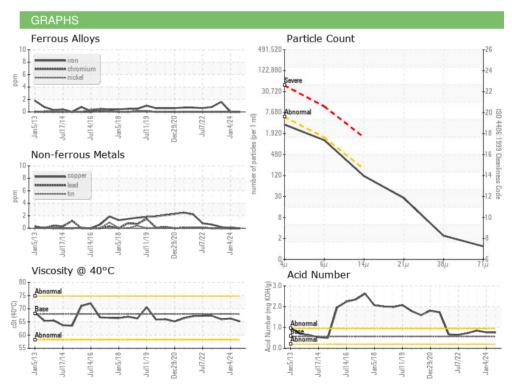
SAMPLE IMAGES

Color

Bottom











Laboratory Sample No.

: WC0854384 Lab Number : 06237734 Unique Number : 11126568

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 16 Jul 2024 **Tested** : 17 Jul 2024

Diagnosed

: 18 Jul 2024 - Jonathan Hester

CHICAGO, IL

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

MARS CHOCOLATE

2019 NORTH OAK PARK

Test Package : IND 2 Certificate 12367

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)

US 60707