

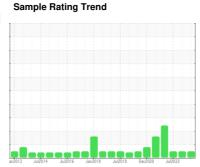
OIL ANALYSIS REPORT

[603777712 SR] Machine Id CRMB REFINER 7 (S/N 20060132)

Component

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

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

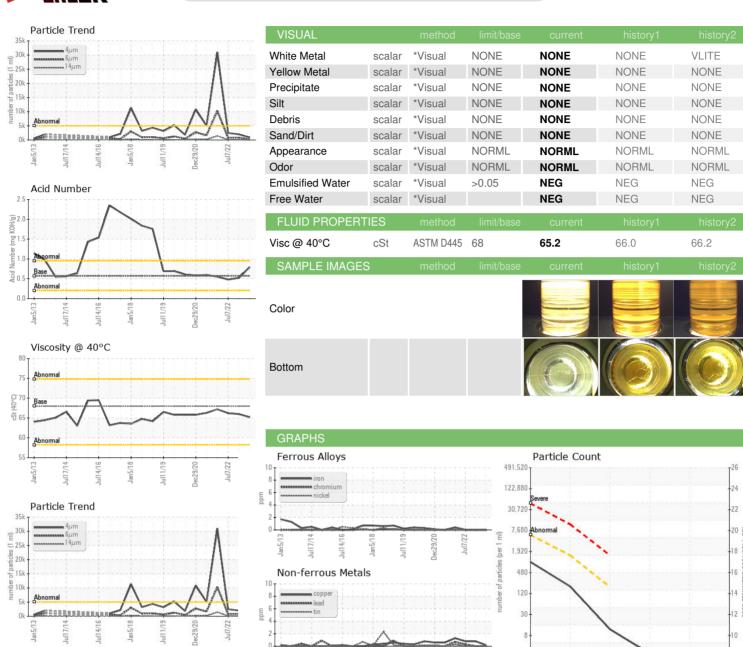
Fluid Condition

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

m2013 Ju2014 Ju2016 Jm2018 Ju2019 Dec2020 Ju2022						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0562490	WC0562114	WC0605635
Sample Date		Client Info		06 Jul 2023	07 Jan 2023	07 Jul 2022
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
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		<1	0	0
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>20	<1	0	0
Lead	ppm	ASTM D5185m	>20	0	0	<1
Copper	ppm	ASTM D5185m	>20	<1	<1	<1
Tin	ppm	ASTM D5185m	>20	0	0	0
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		<1	0	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	0	0
Magnesium	ppm	ASTM D5185m	25	<1	<1	<1
Calcium	ppm	ASTM D5185m	200	<1	4	3
Phosphorus	ppm	ASTM D5185m	300	213	518	537
Zinc	ppm	ASTM D5185m	370	0	199	205
Sulfur	ppm	ASTM D5185m	2500	2354	1591	1664
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	1
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	844	2003	2472
Particles >6µm		ASTM D7647	>1300	168	791	750
Particles >14µm		ASTM D7647	>160	10	87	83
Particles >21µm		ASTM D7647	>40	2	23	22
Particles >38µm		ASTM D7647	>10	0	3	2
Particles >71µm		ASTM D7647	>3	0	1	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	17/15/10	18/17/14	18/17/14
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.79	0.52	0.48



OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No.

Lab Number **Unique Number**

: 05901240 : 10562596 Test Package : IND 2

60 55

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 18 Jul 2023 : WC0562490 Received Diagnosed : 20 Jul 2023 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)

Viscosity @ 40°C

MARS CHOCOLATE

2019 NORTH OAK PARK CHICAGO, IL US 60707

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

Acid Number

Number (mg KOH/g) 1.5 2.0 2.0 3.0