

# **OIL ANALYSIS REPORT**

### Sample Rating Trend

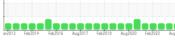
### **NORMAL**



# <sup>Area</sup>[603854360 SDR] 1 CRMB REFINER FEED ROLL (S/N 20068973)

Component Gearbox

GEAR OIL ISO 220 (--- 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

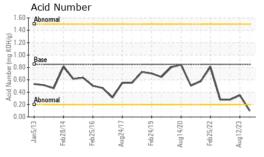
### Fluid Condition

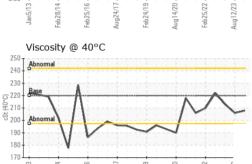
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

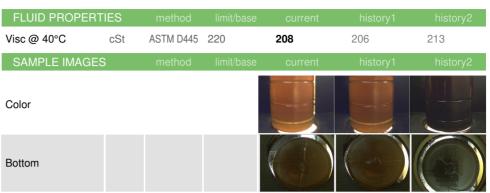
		an 2013 Feb 2	014 Feb2016 Aug2017	Feb2019 Aug2020 Feb2022	Aug2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0562308	WC0562309	WC0605310
Sample Date		Client Info		12 Aug 2023	12 Aug 2023	26 Feb 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	18	18	42
Chromium	ppm	ASTM D5185m	>15	0	0	<1
Nickel	ppm	ASTM D5185m	>15	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	<1	1
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m		<1	<1	<1
Tin	ppm	ASTM D5185m	>25	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	4	3	16
Barium	ppm	ASTM D5185m	15	0	0	0
Molybdenum	ppm	ASTM D5185m	15	0	0	0
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m	50	<1	<1	3
Calcium	ppm	ASTM D5185m	50	215	212	1322
Phosphorus	ppm	ASTM D5185m	350	190	189	358
Zinc	ppm	ASTM D5185m	100	0	0	<1
Sulfur	ppm	ASTM D5185m	12500	3118	3076	11855
CONTAMINANTS		method	limit/base			history2
				current	history1	
Silicon	ppm	ASTM D5185m	>50	3	2	2
Sodium	ppm	ASTM D5185m		0	0	<1
Potassium	ppm	ASTM D5185m	>20	<1	<1	2
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.85	0.10	0.35	0.28
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
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
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG



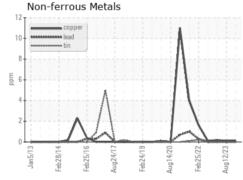
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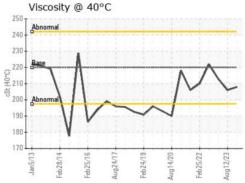


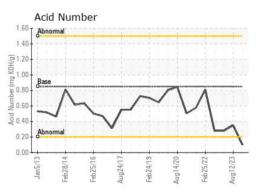




# **GRAPHS** Ferrous Alloys 140 120 100 80 60 40 20











Laboratory

Sample No. Lab Number

: 05924946 Unique Number : 10604893 Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0562308 Received : 15 Aug 2023 Diagnosed : 16 Aug 2023

Diagnostician : Jonathan Hester

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) MARS CHOCOLATE

2019 NORTH OAK PARK CHICAGO, IL

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