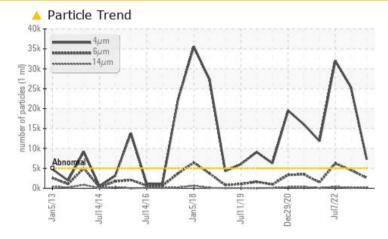


## **PROBLEM SUMMARY**

## [20059658 SR] Machine Id CRMB REFINER 1 (S/N 20059698)

Component Hydraulic System Fluid AW HYDRAULIC OIL ISO 68 (--- GAL)

## COMPONENT CONDITION SUMMARY



## Sample Rating Trend ISO

#### RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS								
Sample Status		ABNORMA	ABNORMAL	ABNORMAL				
Particles >4µm	ASTM D7647 >5	5000 <b>A 7254</b>	▲ 25265	<b>A</b> 32027				
Particles >6µm	ASTM D7647 >1	300 🔺 <b>2615</b>	<b>4</b> 567	<b>6</b> 198				
Particles >14µm	ASTM D7647 >1	l 60 🔺 <b>237</b>	138	<b>A</b> 371				
Particles >21µm	ASTM D7647 >4	40 🔺 <b>51</b>	27	<b>6</b> 9				
Oil Cleanliness	ISO 4406 (c) >1	9/17/14 🔺 20/19/15	<b>2</b> 2/19/14	<u> </u>				

Customer Id: MARSCHI Sample No.: WC0562493 Lab Number: 05901238 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Don Baldridge +1 don.b505@comcast.net

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description			
Change Filter			?	We recommend you service the filters on this component.			

## HISTORICAL DIAGNOSIS



07 Jan 2023 Diag: Don Baldridge

We recommend you service the filters on this component. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

# view report

view report

## 07 Jul 2022 Diag: Don Baldridge



We recommend you service the filters on this component. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

ISO

## 14 Jan 2022 Diag: Doug Bogart

No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.







## **OIL ANALYSIS REPORT**

#### Area [20059658 SR] Machine Id CRMB REFINER 1 (S/N 20059698) Component

Hydraulic System

AW HYDRAULIC OIL ISO 68 (--- GAL)

## DIAGNOSIS

## Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

## Wear

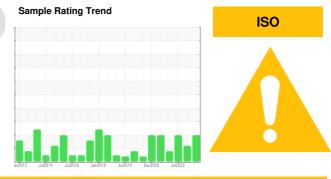
All component wear rates are normal.

## Contamination

There is a high 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.



SAMPLE INFORM	<b>IATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0562493	WC0605358	WC0605643
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				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	4	4
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	0
Aluminum	ppm	ASTM D5185m	>20	<1	0	<1
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	<1	0	<1
Tin	ppm	ASTM D5185m	>20	<1	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	0	<1
Calcium	ppm	ASTM D5185m	200	3	<1	0
Phosphorus	ppm	ASTM D5185m	300	203	138	124
Zinc	ppm	ASTM D5185m	370	1	<1	0
Sulfur	ppm	ASTM D5185m	2500	2365	2290	2019
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	>20	<1	0	1
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<u> </u>	▲ 25265	▲ 32027
Particles >6µm		ASTM D7647	>1300	<u> </u>	<b>4</b> 567	<b>6</b> 198
Particles >14µm		ASTM D7647	>160	<b>A</b> 237	138	<b>A</b> 371
Particles >21µm		ASTM D7647	>40	<u> </u>	27	<b>6</b> 9
Particles >38µm		ASTM D7647	>10	0	1	8
Particles >71µm		ASTM D7647	>3	0	0	1
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>A</b> 20/19/15	<b>2</b> 2/19/14	▲ 22/20/16
FLUID DEGRADA	TION	method	limit/base	current	history1	history2



40°C)

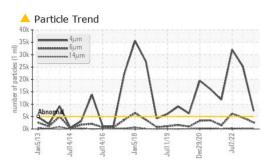
60 Abno

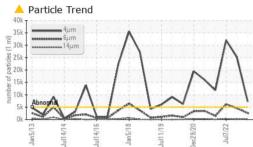
55 Jan5/13

114/12

n114/16

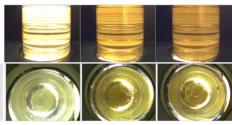
## **OIL ANALYSIS REPORT**



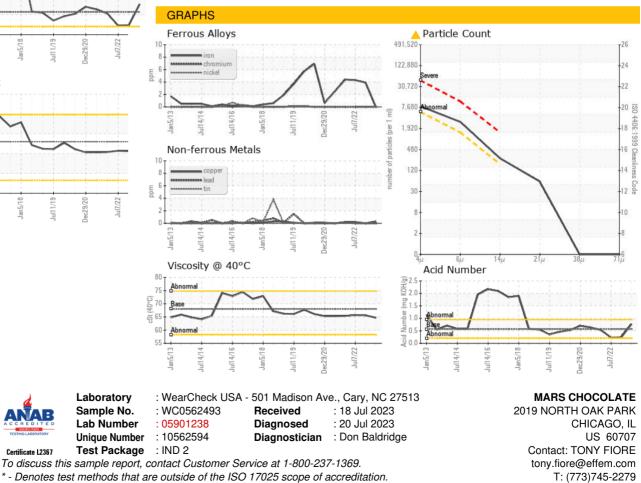


Jan5/13	Jull 4/14	Jul14/16	Jan5/18	31/11lnL	Dec29/2(	Jul7/2	
Acid N	umbe	er					
		~					
2.0 1.5 1.0 - Abnomal 0.5 - Base			7				
Abnormal				~		$\checkmark$	
Jan5/13	Jul14/14	Jul14/16	Jan5/18		Dec29/20	Jul7/22	
Jar	Jul	Jul	Jar	Jul	Dec	٦٢	maa
Viscosi	ity @	40°C					aa
00							

		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	VLITE
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 PROPERTI	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	68	64.7	65.6	65.7
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						



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\* - 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)

Certificate L2367

Contact/Location: TONY FIORE - MARSCHI

F: