

No relevant graphs to display

#### RECOMMENDATION

We suspect abnormal contamination may be due to sampling method. No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS										
Sample Status		ABNORMAL	NORMAL	NORMAL						
Debris	scalar	*Visual	NONE	🔺 MODER	NONE	NONE				

Customer Id: MARSCHI Sample No.: WC0854363 Lab Number: 05982516 Test Package: IND 2



To manage this report scan the QR code

*To discuss the diagnosis or test data:* Jonathan Hester +1 919-379-4092 x4092 jhester@wearcheckusa.com

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

#### **RECOMMENDED ACTIONS**

There are no recommended actions for this sample.

service.

#### **HISTORICAL DIAGNOSIS**

## 27 Apr 2023 Diag: Don Baldridge





Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



#### 09 Feb 2023 Diag: Don Baldridge



Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further





#### 11 Aug 2022 Diag: Angela Borella



Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the component. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.







## **OIL ANALYSIS REPORT**

#### Area [604094593 SR] Machine Id CONCHE 5 MD (S/N 20060624) Component

Gearbox Fluid

GEAR OIL ISO 460 (--- GAL)

## DIAGNOSIS

#### Recommendation

We suspect abnormal contamination may be due to sampling method. No corrective action is recommended at this time. Resample at the next service interval to monitor.

## Wear

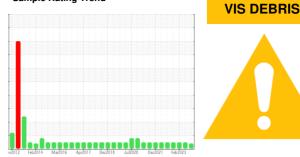
All component wear rates are normal.

## Contamination

Moderate concentration of visible dirt/debris present in the oil.

## Fluid Condition

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

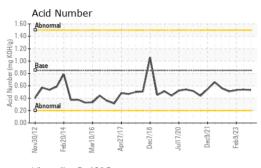


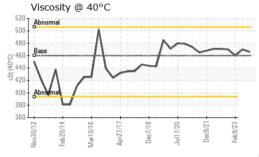
Sample Rating Trend

		v2012 Feb2(		Dec2018 Jul2020 Dec2021	Feb2023	
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0854363	WC0605505	WC0562083
Sample Date		Client Info		13 Oct 2023	27 Apr 2023	09 Feb 2023
Machine Age	mls	Client Info		0	0	0
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	2	3	3
Chromium	ppm	ASTM D5185m	>15	0	0	0
Nickel	ppm	ASTM D5185m	>15	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	0	0	0
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m		0	<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	0	0	0
Barium	ppm	ASTM D5185m	15	<1	0	0
Molybdenum	ppm	ASTM D5185m	15	0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	50	4	<1	<1
Calcium	ppm	ASTM D5185m	50	146	98	117
Phosphorus	ppm	ASTM D5185m	350	124	120	125
Zinc	ppm	ASTM D5185m	100	32	20	30
Sulfur	ppm	ASTM D5185m	12500	2053	2151	2295
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	1	2	1
Sodium	ppm	ASTM D5185m		0	0	<1
Potassium	ppm	ASTM D5185m	>20	0	<1	<1
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.85	0.53	0.54	0.53
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT	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	A MODER	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	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
:40:22) Pou: 1				Contact/Loor	tion: TONV EIC	



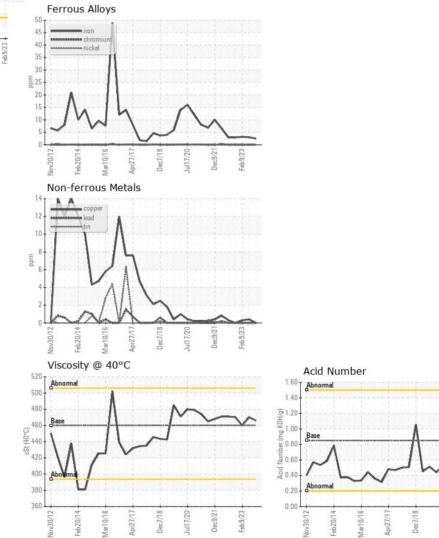
# **OIL ANALYSIS REPORT**







## GRAPHS



MARS CHOCOLATE Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : WC0854363 Received : 18 Oct 2023 2019 NORTH OAK PARK Lab Number : 05982516 : 20 Oct 2023 CHICAGO, IL Diagnosed Diagnostician : Jonathan Hester Unique Number : 10699811 US 60707 Test Package : IND 2 Contact: TONY FIORE Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. tony.fiore@effem.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (773)745-2279 F:

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: TONY FIORE - MARSCHI

Dec9/21

eb9/23