

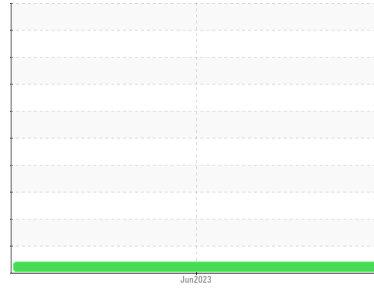


# PROBLEM SUMMARY

Sample Rating Trend

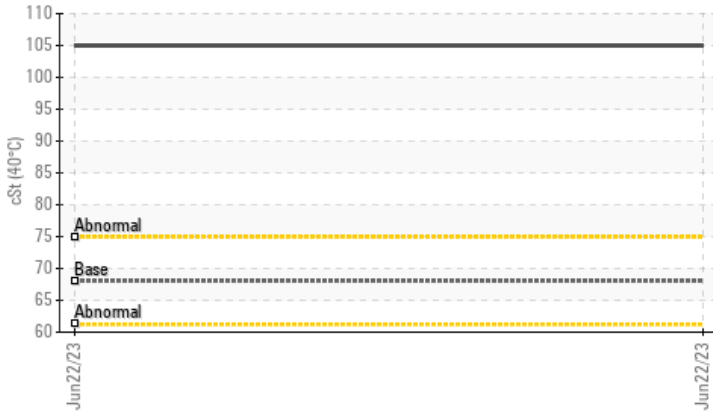
VISCOSITY

Area  
**[603954402 SDR]**  
 Machine Id  
**COLD WATER PUMP 3 (S/N 20064006)**  
 Component  
**Secondary Pump**  
 Fluid  
**ISO 68 (--- GAL)**



## COMPONENT CONDITION SUMMARY

▲ Viscosity @ 40°C



## RECOMMENDATION

Resample at the next service interval to monitor.

## PROBLEMATIC TEST RESULTS

Sample Status				<b>ATTENTION</b>	---	---
Visc @ 40°C	cSt	ASTM D445	68.0	▲ 105	---	---

Customer Id: MARSCHI  
 Sample No.: WC0605518  
 Lab Number: 05901411  
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Don Baldrige +1  
[don.b505@comcast.net](mailto:don.b505@comcast.net)

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

## RECOMMENDED ACTIONS

*There are no recommended actions for this sample.*

## HISTORICAL DIAGNOSIS

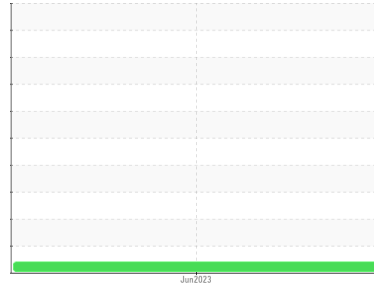


# OIL ANALYSIS REPORT

Sample Rating Trend

VISCOSITY

Area  
**[603954402 SDR]**  
 Machine Id  
**COLD WATER PUMP 3 (S/N 20064006)**  
 Component  
**Secondary Pump**  
 Fluid  
**ISO 68 (--- GAL)**



## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

Viscosity of sample indicates oil is within ISO 100 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>WC0605518</b>	---	---
Sample Date	Client Info	<b>22 Jun 2023</b>	---	---
Machine Age	mls Client Info	<b>0</b>	---	---
Oil Age	mls Client Info	<b>0</b>	---	---
Oil Changed	Client Info	<b>Changed</b>	---	---
Sample Status		<b>ATTENTION</b>	---	---

## WEAR METALS

method	limit/base	current	history1	history2
Iron ppm	ASTM D5185m >90	<b>0</b>	---	---
Chromium ppm	ASTM D5185m >5	<b>0</b>	---	---
Nickel ppm	ASTM D5185m >5	<b>0</b>	---	---
Titanium ppm	ASTM D5185m >3	<b>&lt;1</b>	---	---
Silver ppm	ASTM D5185m >3	<b>0</b>	---	---
Aluminum ppm	ASTM D5185m >7	<b>2</b>	---	---
Lead ppm	ASTM D5185m >12	<b>0</b>	---	---
Copper ppm	ASTM D5185m >30	<b>0</b>	---	---
Tin ppm	ASTM D5185m >9	<b>0</b>	---	---
Vanadium ppm	ASTM D5185m	<b>0</b>	---	---
Cadmium ppm	ASTM D5185m	<b>0</b>	---	---

## ADDITIVES

method	limit/base	current	history1	history2
Boron ppm	ASTM D5185m	<b>0</b>	---	---
Barium ppm	ASTM D5185m	<b>0</b>	---	---
Molybdenum ppm	ASTM D5185m	<b>0</b>	---	---
Manganese ppm	ASTM D5185m	<b>0</b>	---	---
Magnesium ppm	ASTM D5185m	<b>&lt;1</b>	---	---
Calcium ppm	ASTM D5185m	<b>&lt;1</b>	---	---
Phosphorus ppm	ASTM D5185m	<b>13</b>	---	---
Zinc ppm	ASTM D5185m	<b>1</b>	---	---
Sulfur ppm	ASTM D5185m	<b>701</b>	---	---

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185m >60	<b>&lt;1</b>	---	---
Sodium ppm	ASTM D5185m	<b>0</b>	---	---
Potassium ppm	ASTM D5185m >20	<b>&lt;1</b>	---	---

## FLUID DEGRADATION

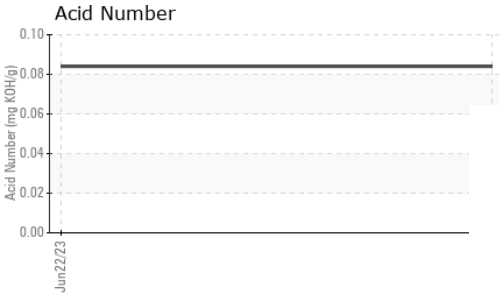
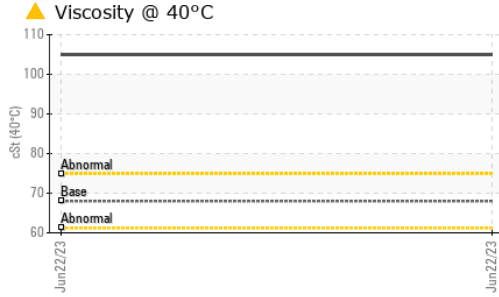
method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g	ASTM D8045	<b>0.084</b>	---	---

## VISUAL

method	limit/base	current	history1	history2
White Metal scalar	*Visual NONE	<b>NONE</b>	---	---
Yellow Metal scalar	*Visual NONE	<b>NONE</b>	---	---
Precipitate scalar	*Visual NONE	<b>NONE</b>	---	---
Silt scalar	*Visual NONE	<b>NONE</b>	---	---
Debris scalar	*Visual NONE	<b>NONE</b>	---	---
Sand/Dirt scalar	*Visual NONE	<b>NONE</b>	---	---
Appearance scalar	*Visual NORML	<b>NORML</b>	---	---
Odor scalar	*Visual NORML	<b>NORML</b>	---	---
Emulsified Water scalar	*Visual	<b>NEG</b>	---	---
Free Water scalar	*Visual	<b>NEG</b>	---	---





# OIL ANALYSIS REPORT



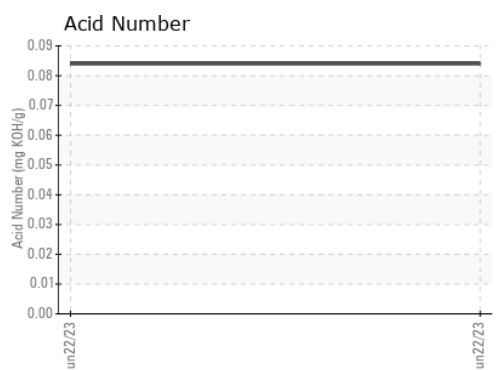
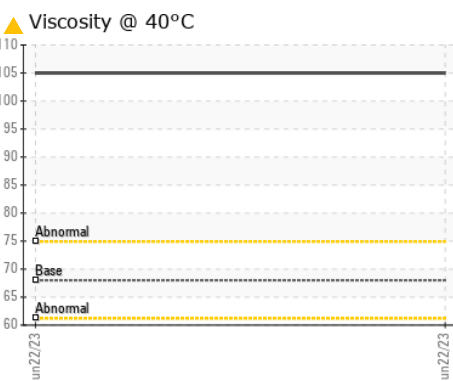
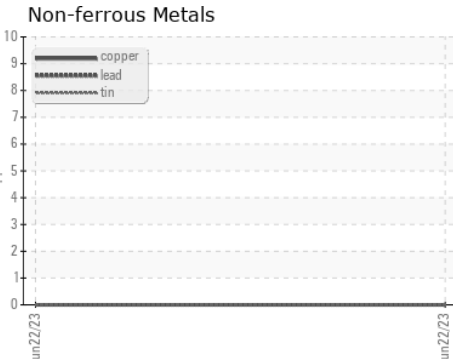
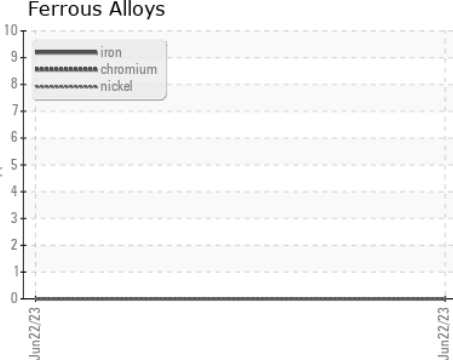
### FLUID PROPERTIES

method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 68.0	▲ 105	---

### SAMPLE IMAGES

method	limit/base	current	history1	history2
Color			no image	no image
Bottom			no image	no image

### GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0605518      **Received** : 18 Jul 2023  
**Lab Number** : 05901411      **Diagnosed** : 20 Jul 2023  
**Unique Number** : 10562767      **Diagnostician** : Don Baldrige  
**Test Package** : IND 2

**MARS CHOCOLATE**  
 2019 NORTH OAK PARK  
 CHICAGO, IL  
 US 60707  
 Contact: TONY FIORE  
 tony.fiore@effem.com  
 T: (773)745-2279  
 F:

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)