

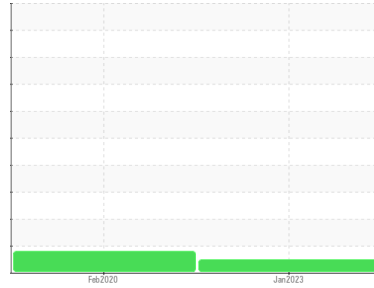
# OIL ANALYSIS REPORT

## Sample Rating Trend

**NORMAL**



Machine Id  
**810-B**  
 Component  
**Hydraulic System**  
 Fluid  
**SHELL TELLUS S2 MX 46 (--- 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.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>PCA0090056</b>	PCA0011466	---
Sample Date	Client Info		<b>06 Jan 2023</b>	06 Feb 2020	---
Machine Age	hrs	Client Info	<b>0</b>	0	---
Oil Age	hrs	Client Info	<b>0</b>	0	---
Oil Changed	Client Info		<b>N/A</b>	N/A	---
Sample Status			<b>NORMAL</b>	ABNORMAL	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	<b>&lt;1</b>	<1	---
Chromium	ppm	ASTM D5185m >20	<b>0</b>	<1	---
Nickel	ppm	ASTM D5185m >20	<b>0</b>	<1	---
Titanium	ppm	ASTM D5185m	<b>0</b>	0	---
Silver	ppm	ASTM D5185m	<b>0</b>	<1	---
Aluminum	ppm	ASTM D5185m >20	<b>0</b>	0	---
Lead	ppm	ASTM D5185m >20	<b>0</b>	0	---
Copper	ppm	ASTM D5185m >20	<b>1</b>	1	---
Tin	ppm	ASTM D5185m >20	<b>0</b>	<1	---
Antimony	ppm	ASTM D5185m	<b>---</b>	0	---
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>0</b>	<1	---
Barium	ppm	ASTM D5185m	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	<b>0</b>	<1	---
Manganese	ppm	ASTM D5185m	<b>0</b>	<1	---
Magnesium	ppm	ASTM D5185m	<b>18</b>	21	---
Calcium	ppm	ASTM D5185m	<b>51</b>	58	---
Phosphorus	ppm	ASTM D5185m	<b>214</b>	213	---
Zinc	ppm	ASTM D5185m	<b>239</b>	288	---
Sulfur	ppm	ASTM D5185m	<b>3393</b>	2882	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	<b>1</b>	1	---
Sodium	ppm	ASTM D5185m	<b>0</b>	0	---
Potassium	ppm	ASTM D5185m >20	<b>0</b>	0	---

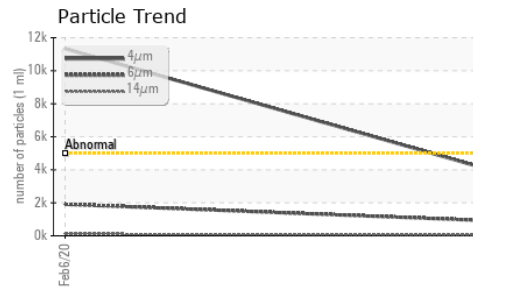
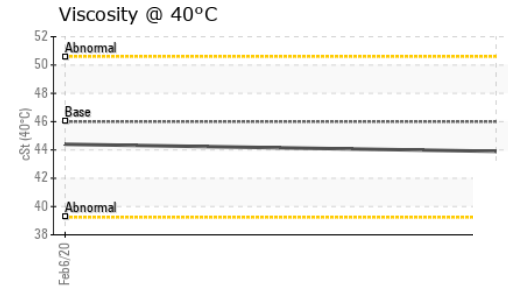
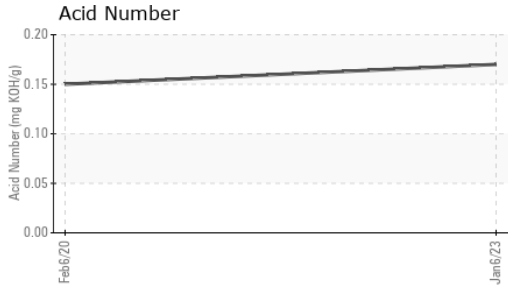
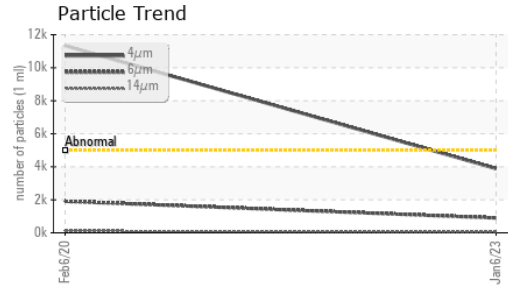
## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	<b>3889</b>	▲ 11338	---
Particles >6µm	ASTM D7647	>1300	<b>898</b>	▲ 1908	---
Particles >14µm	ASTM D7647	>160	<b>68</b>	112	---
Particles >21µm	ASTM D7647	>40	<b>24</b>	30	---
Particles >38µm	ASTM D7647	>10	<b>2</b>	5	---
Particles >71µm	ASTM D7647	>3	<b>0</b>	2	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>19/17/13</b>	▲ 21/18/14	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.17</b>	0.150	---

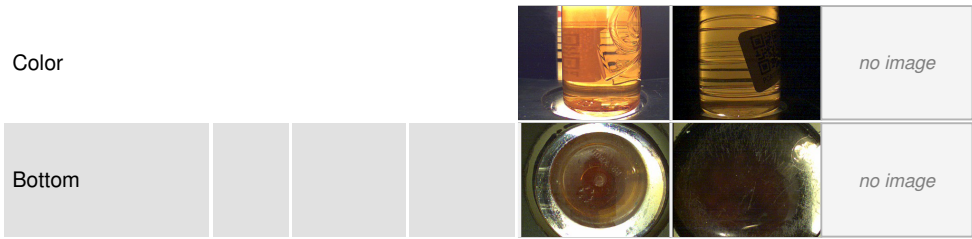
# OIL ANALYSIS REPORT



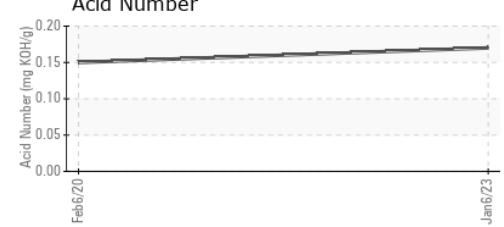
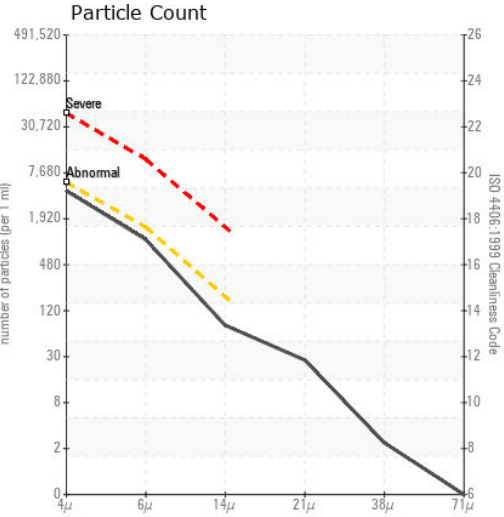
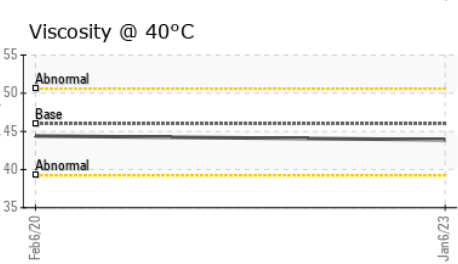
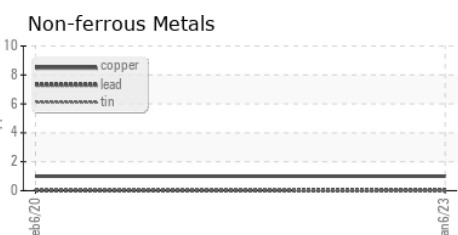
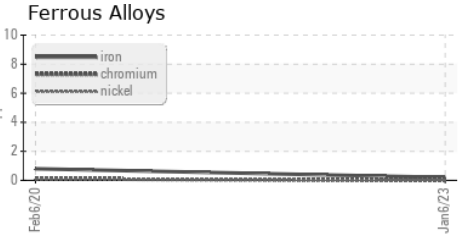
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	LIGHT	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.05	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46.0	43.9	44.4

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0090056 **Received** : 11 Jan 2023  
**Lab Number** : 05736616 **Diagnosed** : 12 Jan 2023  
**Unique Number** : 10286214 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2

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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)