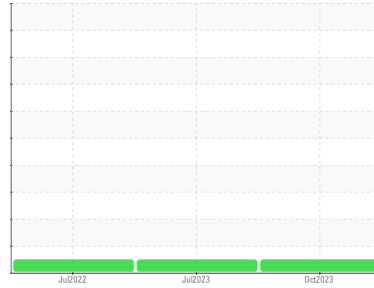




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**CIS Curing**  
 Machine Id  
**[CIS Curing] 360860006 - BULK STORAGE TANK**  
 Component  
**New (Unused) Oil**  
 Fluid  
**SHELL TELLUS S2 MX 68 (2000 GAL)**

## DIAGNOSIS

### Recommendation

This is a baseline read-out on the submitted sample.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>TLC0001082</b>	TLC0001311	TLC0000872
Sample Date	Client Info			<b>19 Oct 2023</b>	11 Jul 2023	19 Jul 2022
Machine Age	hrs	Client Info		<b>0</b>	0	0
Oil Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed	Client Info			<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>5	<b>0</b>	0	0
Chromium	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>5	<b>0</b>	<1	0
Lead	ppm	ASTM D5185m	>5	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>5	<b>0</b>	0	0
Tin	ppm	ASTM D5185m	>5	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>0</b>	0	3
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>0</b>	<1	<1
Manganese	ppm	ASTM D5185m		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185m		<b>64</b>	57	46
Calcium	ppm	ASTM D5185m		<b>51</b>	43	21
Phosphorus	ppm	ASTM D5185m		<b>286</b>	265	252
Zinc	ppm	ASTM D5185m		<b>359</b>	332	310
Sulfur	ppm	ASTM D5185m		<b>780</b>	899	781

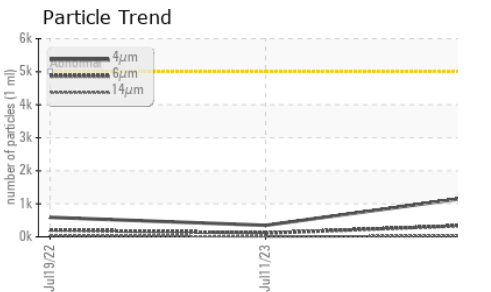
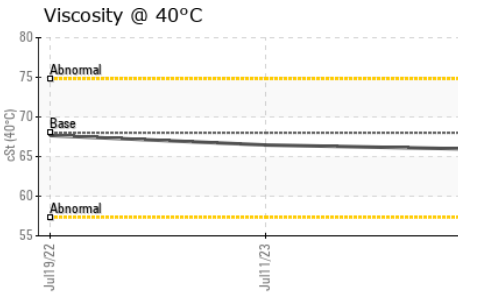
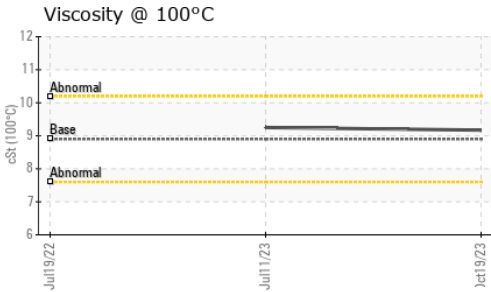
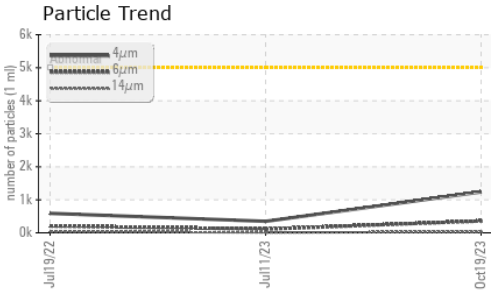
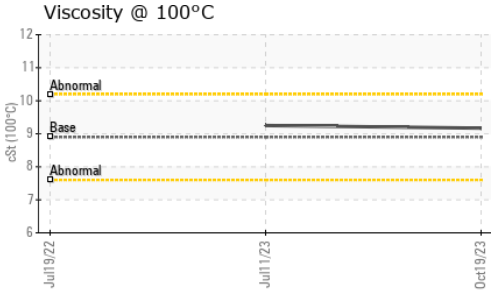
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<b>&lt;1</b>	0	0
Sodium	ppm	ASTM D5185m		<b>0</b>	0	0
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	<1	0

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<b>1238</b>	348	590
Particles >6µm		ASTM D7647	>1300	<b>358</b>	111	206
Particles >14µm		ASTM D7647	>160	<b>26</b>	10	32
Particles >21µm		ASTM D7647	>40	<b>7</b>	3	15
Particles >38µm		ASTM D7647	>10	<b>1</b>	0	2
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>17/16/12</b>	16/14/10	16/15/12

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.33</b>	0.34	0.32



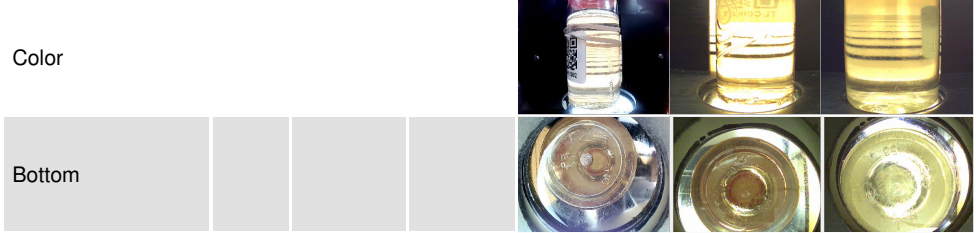
# OIL ANALYSIS REPORT



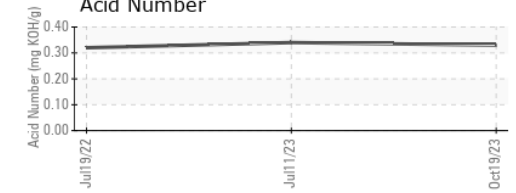
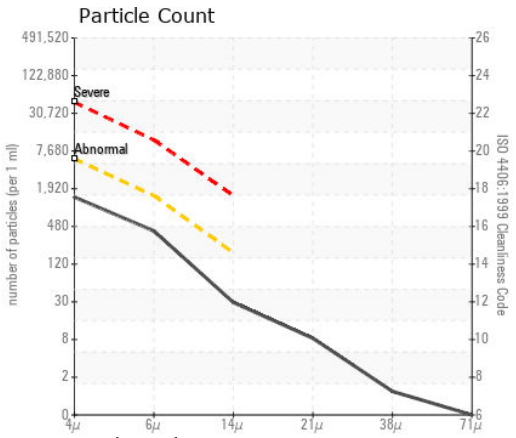
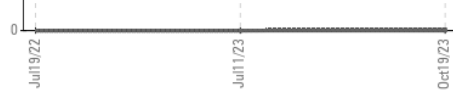
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	68.0	65.93	66.46
Visc @ 100°C	cSt	ASTM D445	8.9	9.17	9.25
Viscosity Index (VI)	Scale	ASTM D2270	105	115	116

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TLC0001082 **Received** : 03 Nov 2023  
**Lab Number** : 05998323 **Diagnosed** : 07 Nov 2023  
**Unique Number** : 10726683 **Diagnostician** : Jonathan Hester  
**Test Package** : PLANT ( Additional Tests: FT-IR, ICP-NewOil, KV100, VI )

**MICHELIN US 10**  
 16 BIBB WAY  
 ANDERSON, SC  
 US 29626  
 Contact: TERRICK PRESLEY  
 terrick.presley@michelin.com  
 T: (803)761-8053  
 F:

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)