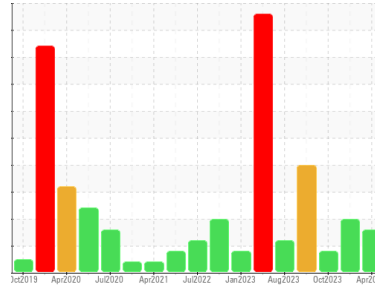


# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id  
**BT-F01-B1 (S/N B1 RECYCLE BLOWER)**  
Component  
**Outboard Blower**  
Fluid  
**SHELL TELLUS S2 MX 100 (--- GAL)**

## DIAGNOSIS

### Recommendation

No corrective actions at this time. Oil is correct and in good condition for an ISO 100 oil. Resample at next normal interval. REISSUE: This sample is for the non-drive end BLOWER bearing, not the motor.

### Wear

Wear particles are low and acceptable.

### Contamination

Contamination is on par with new unfiltered oil.

### Fluid Condition

Fluid health is acceptable for continued use.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>PLS0000293</b>	PLS0000804	PLS0000776
Sample Date	Client Info	<b>17 Apr 2024</b>	31 Jan 2024	24 Oct 2023
Machine Age	mths	<b>3</b>	3	0
Oil Age	mths	<b>0</b>	0	1
Oil Changed	Client Info	<b>N/A</b>	N/A	Changed
Sample Status		<b>ABNORMAL</b>	ABNORMAL	SEVERE

## CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method	<b>NEG</b>	NEG	NEG

## WEAR METALS

method	limit/base	current	history1	history2
PQ	ASTM D8184	<b>15</b>	14	12
Iron	ppm	ASTM D5185m >20	<b>0</b>	0
Chromium	ppm	ASTM D5185m >20	<b>0</b>	0
Nickel	ppm	ASTM D5185m >20	<b>0</b>	0
Titanium	ppm	ASTM D5185m	<b>0</b>	<1
Silver	ppm	ASTM D5185m	<b>0</b>	0
Aluminum	ppm	ASTM D5185m >20	<b>0</b>	0
Lead	ppm	ASTM D5185m >20	<b>0</b>	0
Copper	ppm	ASTM D5185m >20	<b>&lt;1</b>	<1
Tin	ppm	ASTM D5185m >20	<b>&lt;1</b>	0
Vanadium	ppm	ASTM D5185m	<b>0</b>	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	<1

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>0</b>	0
Barium	ppm	ASTM D5185m	<b>0</b>	<1
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1
Magnesium	ppm	ASTM D5185m	<b>62</b>	65
Calcium	ppm	ASTM D5185m	<b>5</b>	2
Phosphorus	ppm	ASTM D5185m	<b>314</b>	290
Zinc	ppm	ASTM D5185m	<b>334</b>	349
Sulfur	ppm	ASTM D5185m	<b>1011</b>	771

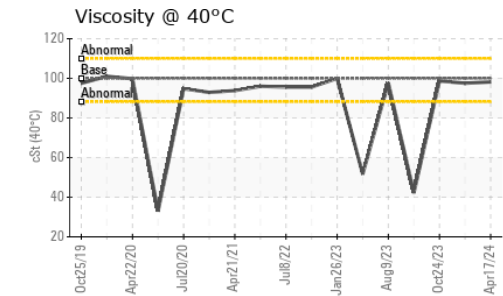
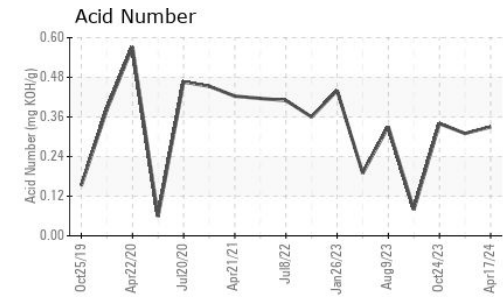
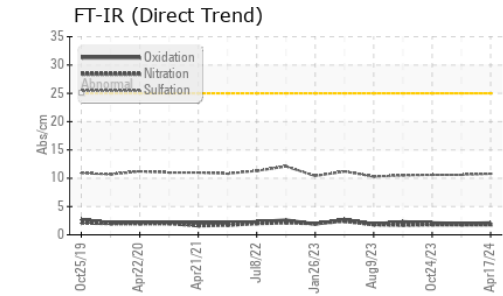
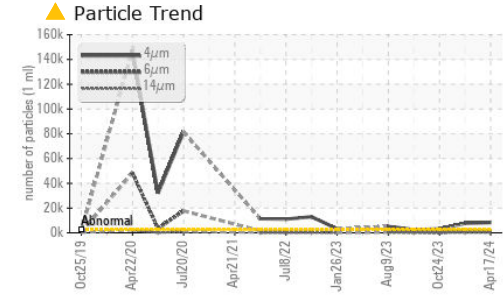
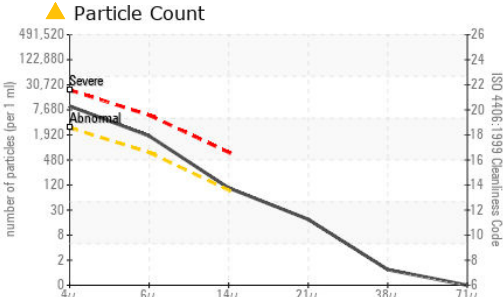
## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	<b>0</b>	<1
Sodium	ppm	ASTM D5185m	<b>3</b>	0
Potassium	ppm	ASTM D5185m >20	<b>2</b>	0

## INFRA-RED

method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	<b>0</b>	0
Nitration	Abs/cm	*ASTM D7624	<b>1.8</b>	1.8
Sulfation	Abs.1mm	*ASTM D7415	<b>10.8</b>	10.6

# OIL ANALYSIS REPORT



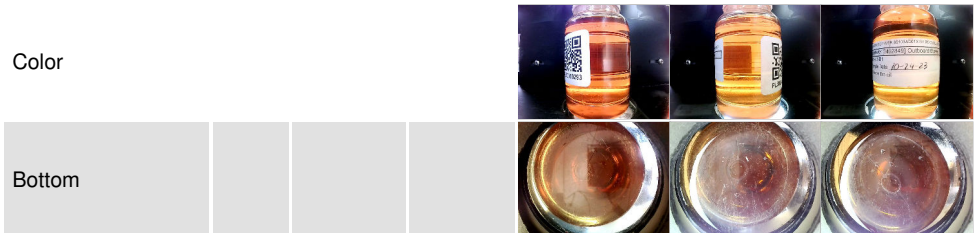
FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	▲ <b>8254</b>	▲ 7671	3189
Particles >6µm	ASTM D7647	>640	▲ <b>1588</b>	▲ 2149	278
Particles >14µm	ASTM D7647	>80	● <b>90</b>	▲ 140	15
Particles >21µm	ASTM D7647	>20	<b>16</b>	▲ 30	3
Particles >38µm	ASTM D7647	>4	<b>1</b>	1	0
Particles >71µm	ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c)	>18/16/13	▲ <b>20/18/14</b>	▲ 20/18/14	19/15/11

FLUID DEGRADATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414		<b>2.1</b>	2.0	2.1
Acid Number (AN)	mg KOH/g ASTM D8045		<b>0.33</b>	0.31	0.34

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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt ASTM D445	100	<b>98.2</b>	97.5	▲ 98.7

SAMPLE IMAGES	method	limit/base	current	history1	history2
---------------	--------	------------	---------	----------	----------



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PLS0000293  
**Lab Number** : **06154194**  
**Unique Number** : 10989617  
**Test Package** : IND 2 ( Additional Tests: FT-IR, PQ, PrtCount )

**Received** : 19 Apr 2024  
**Tested** : 06 May 2024  
**Diagnosed** : 09 May 2024 - Mike Johnson

**HEXION - BAYTOWN PLANT**  
 8450 WEST BAY RD  
 BAYTOWN, TX  
 US 77520  
 Contact: BILL MINER  
 bill.miner@momentive.com

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)