

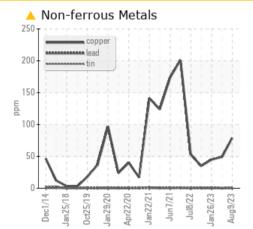
# **PROBLEM SUMMARY**

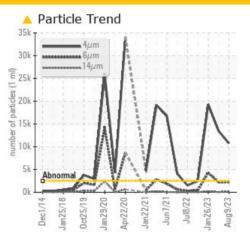
# BT-F01-B2 (S/N B2 FRESH AIR BLOWER)

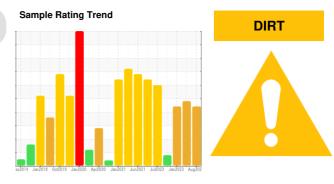
Blower Fluid

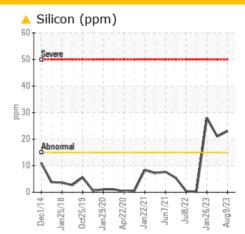
## SHELL TELLUS S2 MX 100 (--- GAL)

## COMPONENT CONDITION SUMMARY









#### RECOMMENDATION

Filter oil if possible using B6=75 filter media or better. No other action required at this time. Resample at next normal interval.

PROBLEMATIC TEST RESULTS								
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL		
Copper	ppm	ASTM D5185m	>20	<u> </u>	<b>4</b> 9	<b>4</b> 5		
Silicon	ppm	ASTM D5185m	>15	<u> </u>	<b>1</b> 21	<u> </u>		
Particles >4µm		ASTM D7647	>2500	<b>A</b> 10767	<b>1</b> 3486	<b>1</b> 9293		
Particles >6µm		ASTM D7647	>640	<u> </u>	<b>2</b> 184	4295		
Particles >14µm		ASTM D7647	>80	<u> </u>	53	<u> </u>		
Particles >21µm		ASTM D7647	>20	<u> </u>	10	<b>A</b> 30		
Oil Cleanliness		ISO 4406 (c)	>18/16/13	<u> </u>	<b>1</b> /18/13	<b>1</b> /19/15		

Customer Id: MOMBAY Sample No.: PLS0000478 Lab Number: 05925994 Test Package: PLANT



To manage this report scan the QR code

To discuss the diagnosis or test data: Mike Johnson +1 (615)771-6030 mike.johnson@amrri.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.

#### HISTORICAL DIAGNOSIS

#### 01 May 2023 Diag: Mike Johnson

DIRT



Filter oil if possible using B6=75 filter media or better. No other action required at this time. Resample at next normal interval.Copper wear particles are elevated. Determine source of copper wear, reviewing labyrinth seals and other common soft metal parts. Contamination is elevated, including some silicon indicators. Review seals and breathers. Filtration can help extend machine life. Fluid health indicators are acceptable for continued use.

#### 26 Jan 2023 Diag: Mike Johnson

25 Oct 2022 Diag: Mike Johnson

DIRT

Filter oil if possible using B6=75 filter media or better. No other

Filter oil if possible using B6=75 filter media or better. No other action recommended at this time. Resample at next normal interval.Copper levels are above normal. Investigate possible sources of wear. Particle contamination is substantially elevated from previous samples. Filtration can help extend machine life. Fluid health is acceptable for continued use provided that contamination is brought under control.



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#### WEAR



Investigate potential sources of copper wear. If worn part is confirmed and fixed, consider changing oil to eliminate contamination. No other action required at this time. Resample at next normal interval.Copper particle count is higher than normal. Investigate possible sources of copper wear. Particle contamination is on par with new unfiltered oil. Consider filtering oil to extend machine life. Fluid health is acceptable for continued use.





Report Id: MOMBAY [WUSCAR] 05925994 (Generated: 08/23/2023 16:20:08) Rev: 1



# **OIL ANALYSIS REPORT**

# BT-F01-B2 (S/N B2 FRESH AIR BLOWER)

Blower

SHELL TELLUS S2 MX 100 (--- GAL)

#### DIAGNOSIS

#### Recommendation

Filter oil if possible using B6=75 filter media or better. No other action required at this time. Resample at next normal interval.

### 🔺 Wear

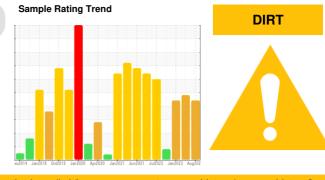
Copper wear particles are elevated. Determine source of copper wear, reviewing labyrinth seals and other common soft metal parts.

#### Contamination

Contamination is elevated, including some silicon indicators. Review seals and breathers. Filtration can help extend machine life.

### Fluid Condition

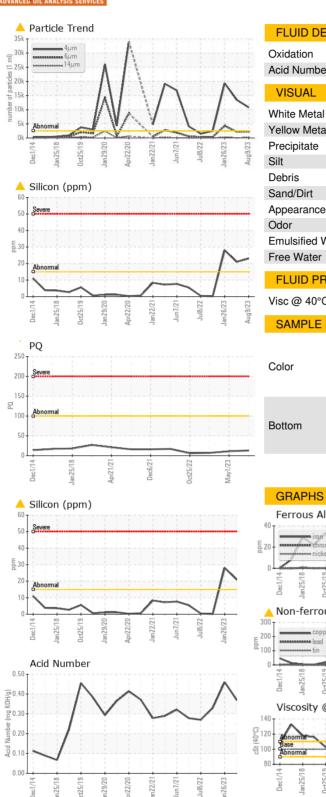
Fluid health indicators are acceptable for continued use.



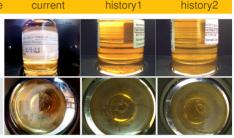
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PLS0000478	PLS0000712	PLS0000640
Sample Date		Client Info		09 Aug 2023	01 May 2023	26 Jan 2023
Machine Age	mths	Client Info		0	0	3
Oil Age	mths	Client Info		0	6	0
Oil Changed		Client Info		N/A	Not Changd	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		13	11	7
Iron	ppm	ASTM D5185m	>20	2	1	2
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>20	0	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>20	0	<1	0
Lead	ppm	ASTM D5185m		<1	0	<1
Copper	ppm	ASTM D5185m	>20	< 79	49	45
Tin	ppm	ASTM D5185m		0	<1	0
Vanadium	ppm	ASTM D5185m	220	0	0	0
Cadmium		ASTM D5185m		0	<1	0
	ppm			U		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		0	<1	0
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		60	57	57
Calcium	ppm	ASTM D5185m		6	<1	6
Phosphorus	ppm	ASTM D5185m		308	311	319
Zinc	ppm	ASTM D5185m		331	323	314
Sulfur	ppm	ASTM D5185m		977	1162	807
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<b>4</b> 23	<b>1</b> 21	<u> </u>
Sodium	ppm	ASTM D5185m		0	<1	0
Potassium	ppm	ASTM D5185m	>20	<1	<1	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624		2.0	2.0	2.3
Sulfation	Abs/.1mm	*ASTM D7415		13.6	14.6	15.1
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	<b>人</b> 10767	<b>1</b> 3486	▲ 19293
Particles >6µm		ASTM D7647	>640	<u> </u>	<b>A</b> 2184	4295
Particles >14µm		ASTM D7647	>80	🔺 167	53	<b>A</b> 218
Particles >21µm		ASTM D7647	>20	<u> </u>	10	<b>A</b> 30
Particles >38μm		ASTM D7647	>4	1	1	1
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>18/16/13	<u> </u>	🔺 21/18/13	🔺 21/19/15

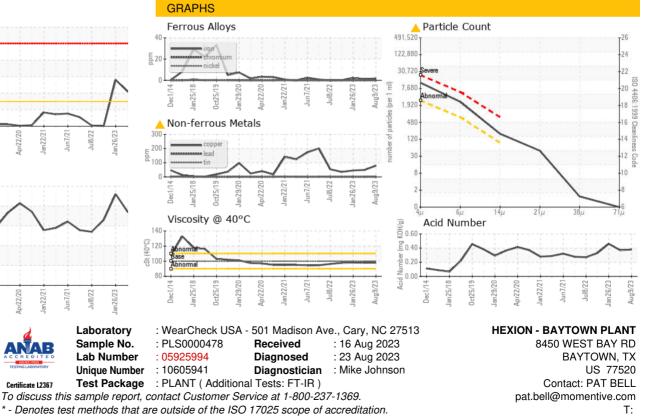


# **OIL ANALYSIS REPORT**



FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414		7.7	8.6	9.6
Acid Number (AN)	mg KOH/g	ASTM D8045		0.38	0.37	0.46
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	🔺 LIGHT	NONE
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	LIGHT	NONE	LIGHT
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		NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	100	98.1	98.0	98.2
SAMPLE IMAGES		method	limit/base	current	history1	history2
					Pom-	100mm





\* - 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)

Certificate L2367

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