

PROBLEM SUMMARY

Sample Rating Trend

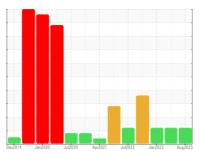
ISO

BT-FOR-A4 (S/N TANK FT4 AGITATOR)

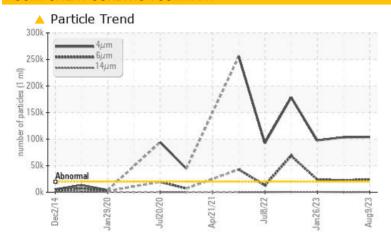
Component

Gearbox

SHELL OMALA S2 GX 220 (--- 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 TE	ST RESULTS				
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL
Particles >4µm	ASTM D7647	>20000	<u> </u>	<u>▲</u> 103580	▲ 97651
Particles >6µm	ASTM D7647	>5000	24043	<u>22209</u>	<u>23639</u>
Oil Cleanliness	ISO 4406 (c)	>21/19/16	4 24/22/16	<u>4</u> 24/22/14	24/22/16

Customer Id: MOMBAY Sample No.: PLS0000563 Lab Number: 05925996 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

ISO



Filter oil if possible using B6=75 filter media or better. No other action required at this time. Resample at next normal interval. Wear particles are low and acceptable. Particle contamination is elevated. Filtration can help extend machine life. Fluid health indicators are acceptable for continued use.



26 Jan 2023 Diag: Mike Johnson

ISO



Filter oil if possible using B6=75 filter media or better. No other action recommended at this time. Resample at next normal interval. Wear particles are low and acceptable. Particle contamination is elevated. Filtration can help extend machine life. Fluid health is acceptable for continued use provided that contamination is brought under control.



18 Oct 2022 Diag: Mike Johnson

ISO



Particle counts are elevated. Filter oil if possible with B6=75 filter media or better. If filtration is not possible consider changing oil. No other action recommended at this time. Resample at next normal interval. Wear particles are low and acceptable. Particle contamination is severely elevated. This can cause accelerated wear and premature machine failure. Filter or change oil when possible. Fluid health is acceptable for continued use provided that contamination is brought under control.





OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

BT-FOR-A4 (S/N TANK FT4 AGITATOR)

Component

Gearbox

SHELL OMALA S2 GX 220 (--- 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

Wear particles are low and acceptable.

Contamination

Particle contamination is elevated. Filtration can help extend machine life.

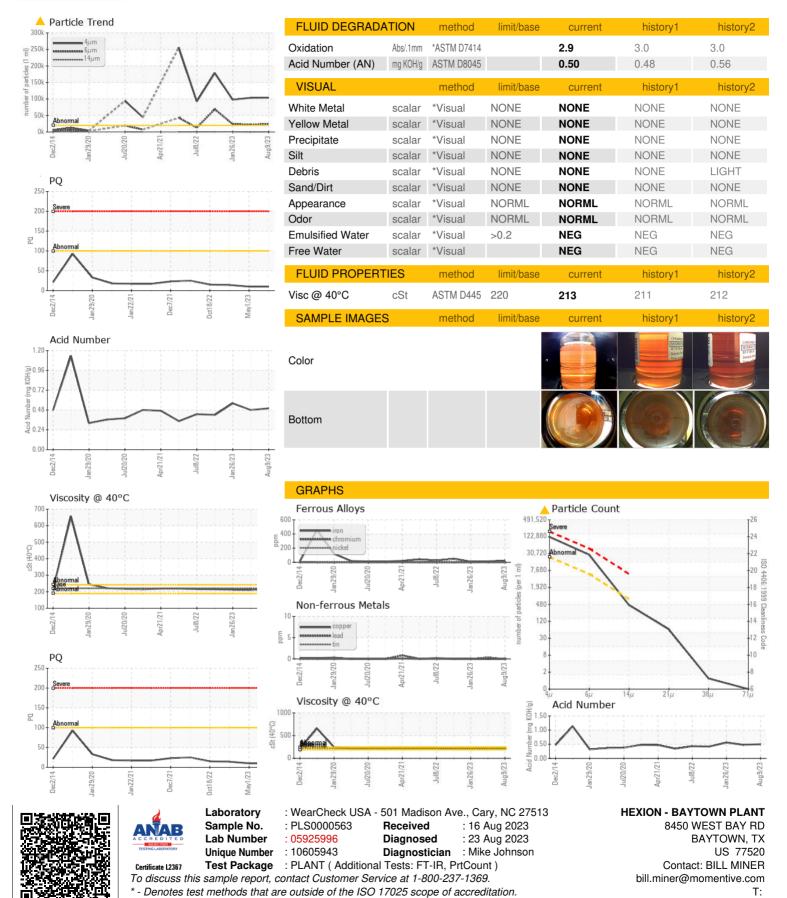
Fluid Condition

Fluid health indicators are acceptable for continued

		Dec2014	Jan 2020 Jul 2020	Apr2021 Jul2022 Jan2023	Aug2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PLS0000563	PLS0000704	PLS0000483
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	3	0
Oil Changed		Client Info		N/A	Changed	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		10	10	14
Iron	ppm	ASTM D5185m	>200	23	14	10
Chromium	ppm	ASTM D5185m	>15	0	<1	0
Nickel	ppm	ASTM D5185m	>15	0	<1	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	<1	0
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m	>200	0	0	0
Tin	ppm	ASTM D5185m	>25	0	<1	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	6.2	0	0	0
Barium	ppm	ASTM D5185m	0.0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	<1	<1
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m	0	0	0	2
Calcium	ppm	ASTM D5185m	0.0	0	0	3
Phosphorus	ppm	ASTM D5185m	290	260	293	270
Zinc	ppm	ASTM D5185m	3.8	0	0	7
Sulfur	ppm	ASTM D5185m	8167	11645	13258	9485
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	<1	<1	<1
Sodium	ppm	ASTM D5185m		1	<1	0
Potassium	ppm	ASTM D5185m	>20	0	<1	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624		2.9	3.5	3.2
Sulfation	Abs/.1mm	*ASTM D7415		11.8	12.2	12.2
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>20000	103965	<u>▲</u> 103580	△ 97651
Particles >6µm		ASTM D7647	>5000	<u>^</u> 24043	<u>^</u> 22209	23639
Particles >14µm		ASTM D7647	>640	398	124	606
ranicies > 14µm						
		ASTM D7647	>160	55	14	76
Particles >21µm		ASTM D7647 ASTM D7647	>160 >40	55 1	14 1	76 3
Particles >14µm Particles >21µm Particles >38µm Particles >71µm			>40			



OIL ANALYSIS REPORT



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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