

PROBLEM SUMMARY

BT-FOR-A7 (S/N TANK FT7 AGITATOR)

Gearbox Fluid

SHELL OMALA S2 GX 220 (--- GAL)

COMPONENT CONDITION SUMMARY









RECOMMENDATION

Filter oil if possible using B6=75 filter media or better. If filtration is not possible consider changing oil. No other action required at this time. Resample at next normal interval.

PROBLEMATIC TEST RESULTS							
Sample Status				SE\	/ERE	SEVERE	SEVERE
PQ		ASTM D8184		<u> </u>	207	48	44
Iron	ppm	ASTM D5185m	>200	A 8	4	56	48
Particles >4µm		ASTM D7647	>20000	1	99674	183672	▲ 158644
Particles >6µm		ASTM D7647	>5000	• 1	46589	• 81053	• 75548
Particles >14µm		ASTM D7647	>640	02	9815	<u> </u>	6914
Particles >21µm		ASTM D7647	>160	6	012	2 44	• 1363
Oil Cleanliness		ISO 4406 (c)	>21/19/16	02	25/24/22	• 25/24/19	• 24/23/20

Customer Id: MOMBAY Sample No.: PLS0000718 Lab Number: 06077613 Test Package: IND 2



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 There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

25 Oct 2023 Diag: Mike Johnson



25 Oct 2025 Diag. Mike Johnson

Filter oil if possible using B6=75 filter media or better. If filtration is not possible consider changing oil. No other action required at this time. Resample at next normal interval.Wear particles are steady. Particle contamination is highly elevated. Filtration can help extend machine life. Fluid health is acceptable for continued use provided that contamination can be brought under control.

09 Aug 2023 Diag: Mike Johnson



Aug 2025 Diag. Mike Joinison

Filter oil if possible using B6=75 filter media or better. If filtration is not possible consider changing oil. No other action required at this time. Resample at next normal interval.Wear particles are steady. Particle contamination is highly elevated. Filtration can help extend machine life. Fluid health is acceptable for continued use provided that contamination can be brought under control.

01 May 2023 Diag: Mike Johnson



VISUAL METAL

Ferrous wear rate has returned to the typical trend. The is sufficient visual evidence (above 40 micron particles) that a particle count could not be performed. If this unit is being sampled from a drain line RESAMPLE and be sure to flush the drain line before collecting the sample. The unit should be filtered using B6=75 quality filter media to remove particulate and wear debris. Fe wear rate is within the typical historical range for this drive. Fe wear rates are always higer with drives given their operating contact modes, but filtration helps to control the wear rate. Particle count could not be provided due to the debris in the oil. Filtration is strongly recommended. Fluid health properties suggest oil is acceptable for continued use.





view report



OIL ANALYSIS REPORT

BT-FOR-A7 (S/N TANK FT7 AGITATOR)

Gearbox

SHELL OMALA S2 GX 220 (--- GAL)

DIAGNOSIS

Recommendation

Filter oil if possible using B6=75 filter media or better. If filtration is not possible consider changing oil. No other action required at this time. Resample at next normal interval.

🔺 Wear

Iron wear particles are elevated from previous samples. This could indicate accelerated wear.

Contamination

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

Fluid Condition

Fluid health is acceptable for continued use provided that contamination can be brought under control.



SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PLS0000718	PLS0000784	PLS0000562
Sample Date		Client Info		31 Jan 2024	25 Oct 2023	09 Aug 2023
Machine Age	mths	Client Info		3	0	0
Oil Age	mths	Client Info		0	1	0
Oil Changed		Client Info		N/A	Changed	N/A
Sample Status				SEVERE	SEVERE	SEVERE
CONTAMINATION	٧	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		A 207	48	44
Iron	ppm	ASTM D5185m	>200	<u> </u>	56	48
Chromium	ppm	ASTM D5185m	>15	0	0	0
Nickel	ppm	ASTM D5185m	>15	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	0	0	0
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m	>200	0	0	<1
Tin	ppm	ASTM D5185m	>25	0	0	0
Vanadium	ppm	ASTM D5185m		0	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	<1	0	<1
Molybdenum	ppm	ASTM D5185m	0	0	0	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	0	1	0	4
Calcium	ppm	ASTM D5185m	0.0	5	0	5
Phosphorus	ppm	ASTM D5185m	290	303	218	273
Zinc	ppm	ASTM D5185m	3.8	15	0	14
Sulfur	ppm	ASTM D5185m	8167	9749	8641	10188
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	3	1	2
Sodium	ppm	ASTM D5185m		0	1	0
Potassium	ppm	ASTM D5185m	>20	0	0	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624		3.0	3.0	29

12.1

Sulfation

Abs/.1mm *ASTM D7415

12.1

11.8



50

0.80 0.70 (B/HOX) Apr22/20

an 29/20

Acid Number

OIL ANALYSIS REPORT



FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles \4um		ASTM D7647	>20000	199674	183672	158644
Particles >6µm		ASTM D7647	>5000	146589	81053	75548
Particles >14um		ASTM D7647	>640	29815	2529	6914
Particles >21um		ASTM D7647	>160	6012	▲ 244	1363
Particles >38um		ASTM D7647	>40	33	2	23
Particles >71um		ASTM D7647	>10	1	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	• 25/24/22	• 25/24/19	24/23/20
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414		2.9	3.0	2.8
Acid Number (AN)	mg KOH/g	ASTM D8045		0.48	0.44	0.45
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	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	NONE	NONE	NONE
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	>0.2	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	220	215	210	210
SAMPLE IMAGES	\$	method	limit/base	current	history1	history2
Color						
				ALC: SHE	11	

Bottom



Oct18/22

an22/21 Dec7/21 May1/23

Contact/Location: BILL MINER - MOMBAY