

OIL ANALYSIS REPORT

BT-FOR-A6 (S/N TANK FT6 AGITATOR)

Gearbox

SHELL OMALA S2 GX 220 (--- GAL)

DIAGNOSIS

Recommendation No corrective actions at this time.

Wear

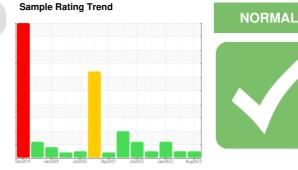
Wear rate is low and steady.

Contamination

Contaminant levele are typical for new oil from the drum

Fluid Condition

Fluid health properties suggest oil is acceptable for continued use.



SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PLS0000565	PLS0000706	PLS0000631
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				NORMAL	NORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		13	10	12
Iron	ppm	ASTM D5185m	>200	25	20	15
Chromium	ppm	ASTM D5185m	>15	0	<1	0
Nickel	ppm	ASTM D5185m	>15	0	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	0	<1	0
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m	>200	2	0	<1
Tin	ppm	ASTM D5185m	>25	0	<1	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	2	<1	0
Barium	ppm	ASTM D5185m	0.0	<1	0	0
Molybdenum	ppm	ASTM D5185m	0	<1	<1	<1
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m	0	2	0	2
Calcium	ppm	ASTM D5185m	0.0	5	<1	4
Phosphorus	ppm	ASTM D5185m	290	266	321	298
Zinc	ppm	ASTM D5185m	3.8	26	0	16
Sulfur	ppm	ASTM D5185m	8167	10411	13610	9114
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	2	1	1
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		2.9	3.1	3.2
Sulfation	Abs/.1mm	*ASTM D7415		12.0	12.5	12.3
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	17959	17638	4 1770
Particles >6µm		ASTM D7647	>5000	3174	2392	6 716
Particles >14µm		ASTM D7647	>640	283	68	315
Particles >21µm		ASTM D7647	>160	88	7	71
Particles > 29um				-	0	

ASTM D7647 >40

ASTM D7647 >10

ISO 4406 (c) >21/19/16

4

0

Particles >38µm

Particles >71µm

Oil Cleanliness

21/19/15 21/18/13 ▲ 23/20/15 Contact/Location: BILL MINER - MOMBAY

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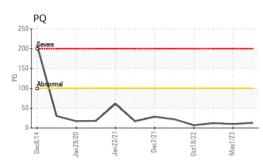
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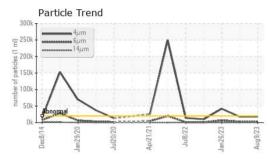
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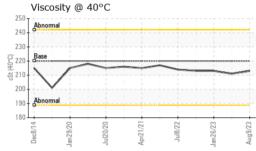
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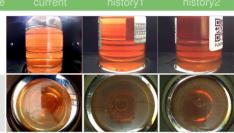


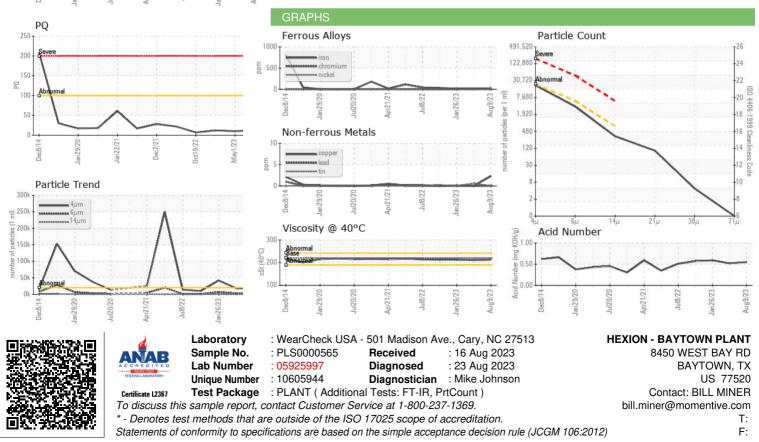


FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414		3.1	3.1	3.0
Acid Number (AN)	mg KOH/g	ASTM D8045		0.55	0.52	0.59
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	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	>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	213	211	213
SAMPLE IMAGES		method	limit/base	current	history1	history2

Color







Contact/Location: BILL MINER - MOMBAY