

# **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

# **BT-FOR-A2 (S/N TANK FT2 AGITATOR)**

Component Gearbox

SHELL OMALA S2 GX 220 (--- GAL)

## **DIAGNOSIS**

#### Recommendation

Filter oil if possible using B6=75 filter media or better. Resample at next normal interval.

#### Wear

Wear particles are low and acceptable.

#### Contamination

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

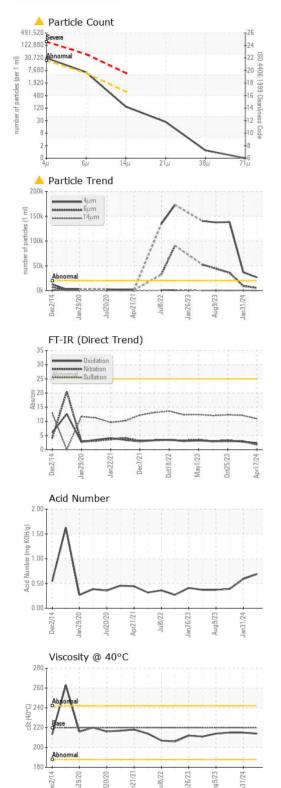
### **Fluid Condition**

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

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SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PLS0000868	PLS0000810	PLS0000779
Sample Date		Client Info		17 Apr 2024	31 Jan 2024	25 Oct 2023
Machine Age	mths	Client Info		3	3	0
Oil Age	mths	Client Info		0	0	1
Oil Changed		Client Info		N/A	N/A	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
CONTAMINATION	١	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		15	17	38
Iron	ppm	ASTM D5185m	>200	43	36	65
Chromium	ppm	ASTM D5185m	>15	0	0	0
Nickel	ppm	ASTM D5185m	>15	0	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	0	0	0
Lead	ppm	ASTM D5185m	>100	<1	0	0
Copper	ppm	ASTM D5185m	>200	<1	0	0
Tin	ppm	ASTM D5185m	>25	<1	<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	0	0	0
Barium	ppm	ASTM D5185m	0.0	0	<1	0
Molybdenum	ppm	ASTM D5185m	0	0	0	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	0	4	4	0
Calcium	ppm	ASTM D5185m	0.0	6	4	0
Phosphorus	ppm	ASTM D5185m	290	324	299	189
Zinc	ppm	ASTM D5185m	3.8	14	28	22
Sulfur	ppm	ASTM D5185m	8167	12477	9785	8736
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	2	2	1
Sodium	ppm	ASTM D5185m		2	0	2
Potassium	ppm	ASTM D5185m	>20	2	0	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0
3001 %						
Nitration	Abs/cm	*ASTM D7624		1.8	3.0	3.0



## **OIL ANALYSIS REPORT**



FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>20000	<u>26590</u>	△ 36698	138272
Particles >6μm		ASTM D7647		△ 5441	9348	△ 35742
Particles >14µm		ASTM D7647	>640	123	362	186
Particles >21μm		ASTM D7647		23	64	17
Particles >38µm		ASTM D7647	>40	1	3	0
Particles >71μm		ASTM D7647		0	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<u>^ 22/20/14</u>	△ 22/20/16	△ 24/22/15
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414		2.4	2.8	3.3
Acid Number (AN)	mg KOH/g	ASTM D8045		0.69	0.59	0.39
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	LIGHT	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	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	214	215	215
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
Color						
Bottom						





Certificate 12367

Laboratory Sample No.

: PLS0000868 Lab Number : 06154197 Unique Number : 10989620

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 19 Apr 2024 Tested : 06 May 2024

Diagnosed : 07 May 2024 - Mike Johnson

Test Package : IND 2 (Additional Tests: FT-IR, PQ, PrtCount) 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)

**HEXION - BAYTOWN PLANT** 

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