

OIL ANALYSIS REPORT

Machine Id BT-FOR-A5 (S/N TANK FT5 AGITATOR) Component Gearbox

Fluid 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

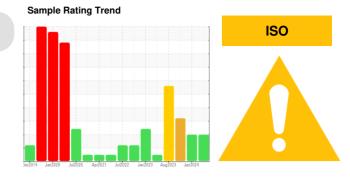
Wear particles are low and acceptable.

Contamination

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

Fluid Condition

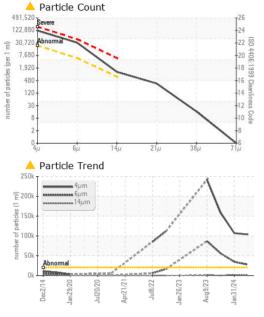
Fluid health is acceptable for continued use provided that contamination can be brought under control.

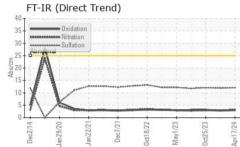


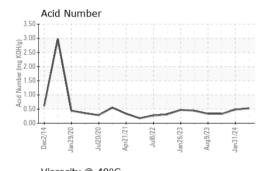
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PLS0000867	PLS0000807	PLS0000782
Sample Date		Client Info		17 Apr 2024	31 Jan 2024	25 Oct 2023
Machine Age	mths	Client Info		3	3	0
Oil Age	mths	Client Info		0	0	1
Oil Changed		Client Info		N/A	N/A	Changed
Sample Status				ABNORMAL	ABNORMAL	SEVERE
CONTAMINATION		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	27	68
Iron	ppm	ASTM D5185m	>200	29	35	146
Chromium	ppm	ASTM D5185m	>15	0	0	<1
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	0	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	0
Manganese	ppm	ASTM D5185m		<1	<1	1
Magnesium	ppm	ASTM D5185m	0	3	3	0
Calcium	ppm	ASTM D5185m	0.0	8	4	0
Phosphorus	ppm	ASTM D5185m	290	298	272	187
Zinc	ppm	ASTM D5185m	3.8	8	20	15
Sulfur	ppm	ASTM D5185m	8167	12460	9769	8555
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	2	2	<1
Sodium	ppm	ASTM D5185m		2	0	1
Potassium	ppm	ASTM D5185m	>20	2	0	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624		3.1	3.0	2.9
Sulfation	Abs/.1mm	*ASTM D7415		12.1	11.9	12.1

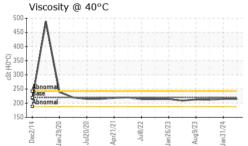


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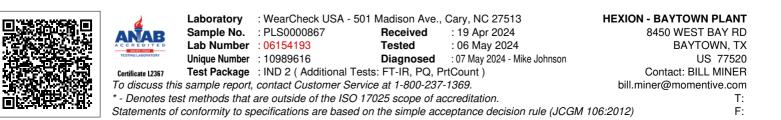


FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	103712	▲ 107054	▲ 158591
Particles >6µm		ASTM D7647	>5000	<u> </u>	4 34707	▲ 56036
Particles >14µm		ASTM D7647	>640	<u> </u>	1 412	364
Particles >21µm		ASTM D7647	>160	<u> </u>	A 371	35
Particles >38µm		ASTM D7647	>40	14	12	0
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	A 24/22/17	4 /22/18	▲ 24/23/16
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414		3.0	2.8	3.2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.53	0.48	0.33
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
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	215	212
SAMPLE IMAGES	6	method	limit/base	current	history1	history2

Color



Bottom



Contact/Location: BILL MINER - MOMBAY

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