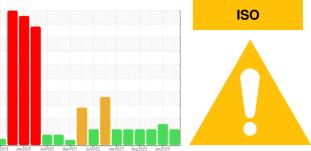


OIL ANALYSIS REPORT

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 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

		Jec2014 Jan2	2020 Jul2020 Apr2021	Jul2022 Jan2023 Aug2023	Jan2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PLS0000869	PLS0000808	PLS0000781
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	N	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		13	18	15
Iron	ppm	ASTM D5185m	>200	13	13	23
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	0	0	0
Copper	ppm	ASTM D5185m	>200	<1	0	0
Tin	ppm	ASTM D5185m	>25	<1	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	0	<1	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m	0	2	4	0
Calcium	ppm	ASTM D5185m	0.0	6	4	0
Phosphorus	ppm	ASTM D5185m	290	300	271	178
Zinc	ppm	ASTM D5185m	3.8	0	14	0
Sulfur	ppm	ASTM D5185m	8167	12438	9730	8721
CONTAMINANTS	1	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	<1	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
Cultation	A la a / 4 mana	*ACTM D744F		10.1	11.0	10.1

Sulfation

Abs/.1mm *ASTM D7415

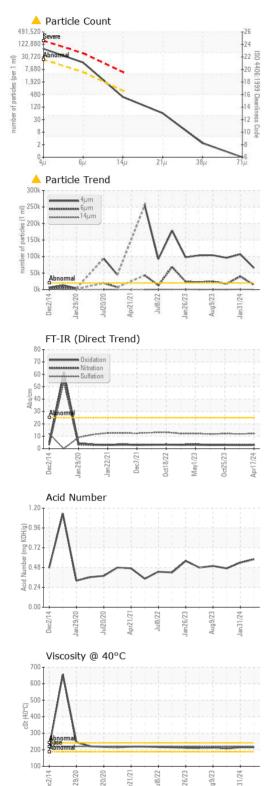
11.9

12.1

12.1



OIL ANALYSIS REPORT



FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>20000	△ 65520	▲ 106985	△ 96005
Particles >6µm		ASTM D7647	>5000	14326	△ 39457	<u> </u>
Particles >14µm		ASTM D7647	>640	322	<u> </u>	105
Particles >21µm		ASTM D7647	>160	54	98	12
Particles >38µm		ASTM D7647	>40	2	2	0
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<u>23/21/16</u>	<u>▲</u> 24/22/17	<u>4</u> 24/21/14
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414		2.9	2.8	3.1
Acid Number (AN)	mg KOH/g	ASTM D8045		0.58	0.54	0.47
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	TES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	220	215	215	208
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
Color				1000 A 10		
Bottom						





Certificate 12367

Laboratory

Lab Number : 06154196

Sample No. : PLS0000869 Unique Number : 10989619

: 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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