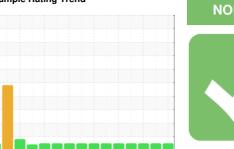


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



BT-FOR-A1 (S/N TANK FT1 AGITATOR)

Component

Gearbox

SHELL OMALA S2 GX 220 (--- GAL)

Recommendation

No action required at this time. Resample at next normal interval.

Wear

Wear particles are low and acceptable.

Contamination

Contamination is on par with new unfiltered oil. Filtration can help to extend machine life.

Fluid Condition

Fluid health indicators are acceptable for continued use.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PLS0000805	PLS0000778	PLS0000569
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				NORMAL	NORMAL	NORMAL
CONTAMINATION	J	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	12	11
Iron	ppm	ASTM D5185m	>200	37	31	34
Chromium	ppm	ASTM D5185m	>15	0	0	0
Nickel	ppm	ASTM D5185m	>15	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	0	0	0
Lead	ppm	ASTM D5185m	>100	0	0	<1
Copper	ppm	ASTM D5185m	>200	0	0	<1
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	<1	4	3
Barium	ppm	ASTM D5185m	0.0	<1	0	<1
Molybdenum	ppm	ASTM D5185m	0	0	<1	<1
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	0	2	0	2
Calcium	ppm	ASTM D5185m	0.0	5	0	3
Phosphorus	ppm	ASTM D5185m	290	311	201	271
Zinc	ppm	ASTM D5185m	3.8	26	19	34
Sulfur	ppm	ASTM D5185m	8167	10212	8520	10828
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	2	1	2
Sodium	ppm	ASTM D5185m		0	1	0
000.0						

ASTM D5185m >20

*ASTM D7844

Abs/cm *ASTM D7624

Abs/.1mm *ASTM D7415

ppm

0

0

3.0

12.2

Potassium

Soot %

Nitration

Sulfation

INFRA-RED

0

0

3.0

12.4

<1

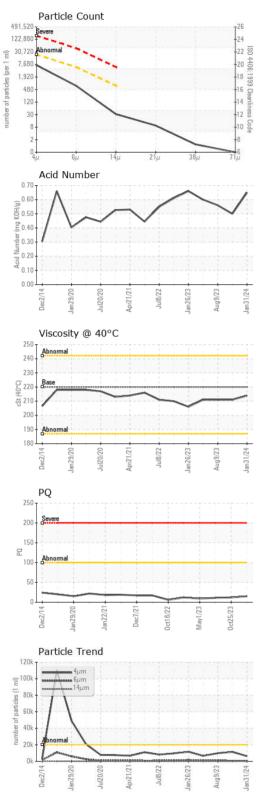
0

2.9

12.1



OIL ANALYSIS REPORT



FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	6240	11329	9801
Particles >6µm		ASTM D7647	>5000	640	648	824
Particles >14µm		ASTM D7647	>640	28	16	21
Particles >21µm		ASTM D7647	>160	8	4	4
Particles >38µm		ASTM D7647	>40	1	0	1
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	20/16/12	21/17/11	20/17/12
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414		2.9	3.3	3.0
Acid Number (AN)	mg KOH/g	ASTM D8045		0.65	0.50	0.56
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	214	211	211
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
Color				COMMITTED TO THE PARTY OF THE P	THE STATE OF THE S	D-HEMARIN III. III. MINUMENT 7508 BEFORM III. Sarge 100 95 Time on PES
Bottom						



Laboratory Sample No.

Lab Number : 06077616

Unique Number : 10859707

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PLS0000805 Received : 01 Feb 2024 **Tested** : 02 Feb 2024

Diagnosed

: 09 Feb 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. **HEXION - BAYTOWN PLANT** 8450 WEST BAY RD

BAYTOWN, TX US 77520

Contact: BILL MINER bill.miner@momentive.com T:

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

Report Id: MOMBAY [WUSCAR] 06077616 (Generated: 02/09/2024 14:51:42) Rev: 1

Contact/Location: BILL MINER - MOMBAY