

#### Machine Id NORDBERG 52004 - BUSHINGS Component Gearbox Fluid SHELL OMALA S2 GX 68 (250 GAL)

# SHELL OMALA S2 GX 68 (250 GAL)

RECOMM	ENDA <sup>®</sup>	TION
--------	-------------------	------

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

#### WEAR

The lead level is abnormal. All other component wear rates are normal.

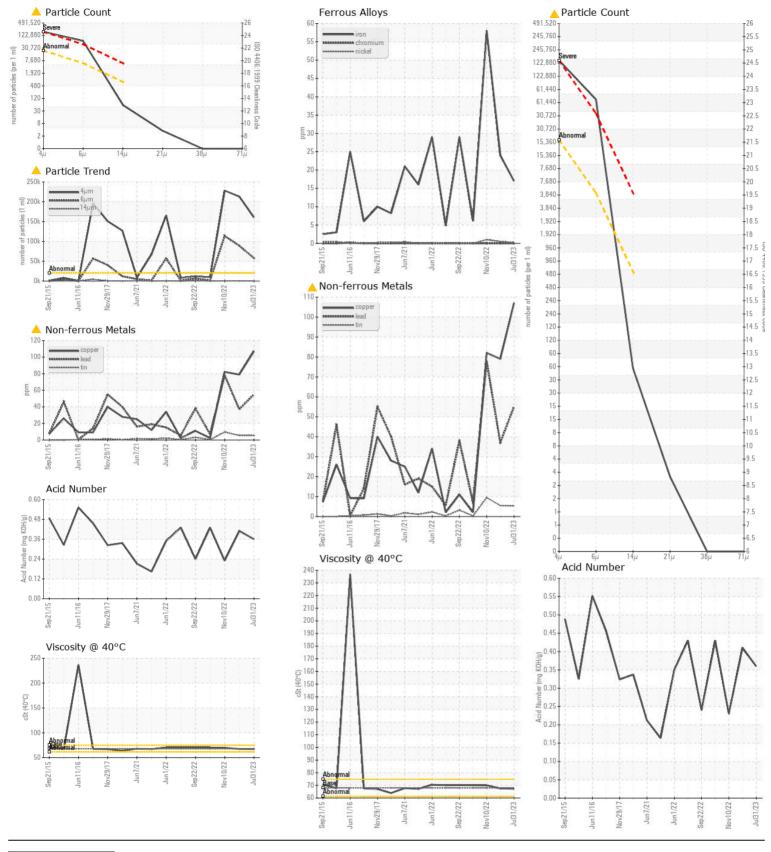
## CONTAMINATION

There is a high amount of silt (particulates < 14 microns in size) present in the oil. Appearance is unacceptable

### FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0823299	WC0725675	WC0725672
Sample Date		Client Info		31 Jul 2023	22 May 2023	10 Nov 2022
Machine Age	hrs	Client Info		14100	13754	13300
Oil Age	hrs	Client Info		653	307	935
Filter Age	hrs	Client Info		346	307	322
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
lueur			000	47	04	50
Iron	ppm	ASTM D5185m	>200	17 0	24 0	58
Chromium	ppm	ASTM D5185m	>10	-	÷	0
Nickel	ppm	ASTM D5185m	>10	<1	<1	
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	05	0	0	0
Aluminum	ppm	ASTM D5185m	>25	0	0	2
Lead	ppm	ASTM D5185m	>50	▲ 55	37	▲ 78
Copper	ppm	ASTM D5185m	>200	107	79	82
Tin	ppm	ASTM D5185m	>10	5	6	10
Vanadium	ppm	ASTM D5185m	NIGNE	0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>50	4	4	5
Potassium	ppm	ASTM D5185m	>20	<1	2	1
Water		WC Method	>0.2	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>20000	<b>160616</b>	<b>A</b> 213125	▲ 228004
Particles >6µm		ASTM D7647	>5000	<b>6</b> 57636	▲ 88969	<b>1</b> 13751
Particles >14µm		ASTM D7647	>640	51	400	433
Particles >21µm		ASTM D7647	>160	3	25	37
Particles >38µm		ASTM D7647	>40	0	0	1
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	A 25/23/13	▲ 25/24/16	<b>2</b> 5/24/16
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	HAZY	HAZY
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Sodium	nom	ASTM D5185m		-1	-1	1
Sodium Boron	ppm	ASTM D5185m ASTM D5185m		<1 7	<1 16	0
Barium	ppm	ASTM D5185m			0	0
Molybdenum	ppm	ASTM D5185m		0 9	10	<1
Manganese	ppm	ASTM D5185m		9 <1	<1	<1
Magnesium	ppm	ASTM D5185m		<1 22	24	<1
Calcium	ppm	ASTM D5185m		52	24 54	10
Phosphorus	ppm	ASTM D5185m		32 311	319	289
Zinc	ppm ppm	ASTM D5185m		43	43	0
Sulfur	ppm	ASTM D5185m		43 8886	43 9305	11109
Acid Number (AN)	mg KOH/g	ASTM D3183III ASTM D8045		0.36	0.41	0.23
Visc @ 40°C	cSt	ASTM D6045 ASTM D445	68	67.2	67.5	69.9
	001	A3110 D443	00	01.2	07.5	09.9



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 PECKHAM MATERIALS Sample No. : WC0823299 3206 PLESANT RIDGE RD Received : 14 Aug 2023 Lab Number : 05924196 WINGDALE, NY Tested : 15 Aug 2023 : 15 Aug 2023 - Don Baldridge US 12594 Unique Number : 10604143 Diagnosed Test Package : MOB 2 ( Additional Tests: PrtCount ) Contact: CHUCK CUYLER Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. ccuyl@peckham.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (845)832-6751 F:

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