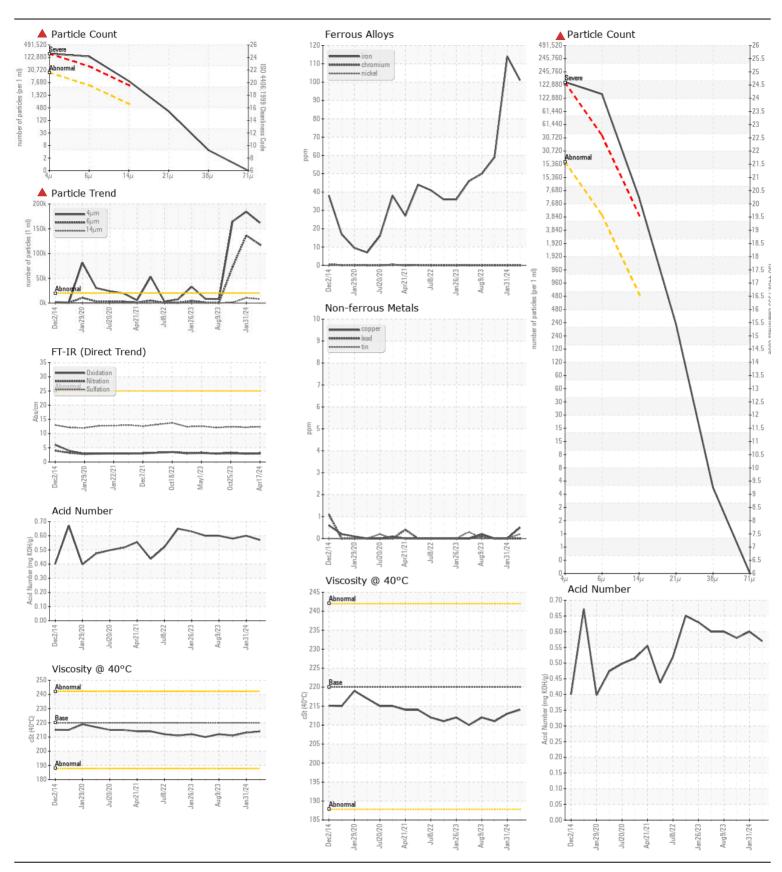
WEAR CONTAMINATION FLUID CONDITION

NORMAL SEVERE NORMAL

Machine Id

BT-FOR-A3 (S/N TANK FT3 AGITATOR)

Component Cearbox Fluid							
SHELL OMALA S2 GX 220 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TEOOMINETION	Sample Number		Client Info		PLS0000870	PLS0000809	PLS000078
Filter oil if possible using B6=75 filter media or better. Investigate sample procedures and possible sources of contamination. If oil has been exposed due to broken seals or open breathers, consider changing oil. Resample at next normal interval.	Sample Date		Client Info		17 Apr 2024	31 Jan 2024	25 Oct 202
	Machine Age	mths	Client Info		3	3	0
	Oil Age	mths	Client Info		0	0	1
	Filter Age	mths	Client Info		0	0	0
	Oil Changed		Client Info		N/A	N/A	Changed
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				SEVERE	SEVERE	SEVERE
WEAD	DO		ACTM DO104		70	A 150	06
WEAR	PQ Iron	nnm	ASTM D8184 ASTM D5185m	> 200	73 101	▲ 153 ▲ 114	36 59
Iron wear particles are elevated from previous samples. This could	Chromium	ppm	ASTM D5185m		0	0	0
indicate accelerated wear	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m	>10	0	0	
	Silver	ppm	ASTM D5185m		0	0	<1
	Aluminum	ppm	ASTM D5185m	-25	0	0	0
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m		ں <1	0	0
	Tin	ppm	ASTM D5185m		<1	0	0
	Vanadium	ppm	ASTM D5185m	720	0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>50	1	2	<1
	Potassium	ppm	ASTM D5185m	>20	1	0	0
Particle contamination is elevated. Filtration can help extend machine life.	Water		WC Method	>0.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.1	0.1	0
	Nitration	Abs/cm	*ASTM D7624		3.1	3.0	3.0
	Sulfation	Abs/.1mm	*ASTM D7415		12.4	12.2	12.4
	Particles >4µm		ASTM D7647		162090	184263	164595
	Particles >6µm		ASTM D7647		117851	1 36492	1 72877
	Particles >14μm		ASTM D7647	>640	A 7921	1 0385	1139
	Particles >21µm		ASTM D7647		<u>^</u> 287	▲ 381	60
	Particles >38µm		ASTM D7647		4	2	0
	Particles >71µm		ASTM D7647		0	1	0
	Oil Cleanliness		ISO 4406 (c)	>21/19/16		25/24/21	2 5/23/11
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt		*Visual	NONE	NONE	NONE	NONE
	Appearance Odor	scalar	*Visual	NORML NORML	NORML NORML	NORML NORML	NORMI
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
<u> </u>			· · · · · · · · · · · · · · · · · · ·				
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	0	2
	Boron	ppm	ASTM D5185m	6.2	0	0	<1
Fluid health is acceptable for continued use provided that	Barium	ppm		0.0	0	<1	0
contamination is brought under control.	Molybdenum	ppm	ASTM D5185m	0	0	0	0
	Manganese	ppm	ASTM D5185m		1	1	<1
	Magnesium	ppm	ASTM D5185m	0	4	2	0
	Calcium	ppm	ASTM D5185m	0.0	4	5	0
	Phosphorus	ppm	ASTM D5185m	290	306	302	193
	Zinc	ppm	ASTM D5185m	3.8	2	15	0
	Sulfur	ppm	ASTM D5185m	8167	12562	9699	8473
	Oxidation	Abs/.1mm	*ASTM D7414		2.9	2.9	3.3
	Acid Number (AN)	ma KOH/a	ASTM D8045		0.57	0.60	0.58
	Visc @ 40°C	mg nong	ASTM D445				211





Laboratory Sample No. Lab Number

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PLS0000870

: 06154202 Unique Number: 10989625 Received : 19 Apr 2024 **Tested** : 06 May 2024

: 07 May 2024 - Mike Johnson Diagnosed

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

Certificate L2367 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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Contact: BILL MINER bill.miner@momentive.com

T:

F: