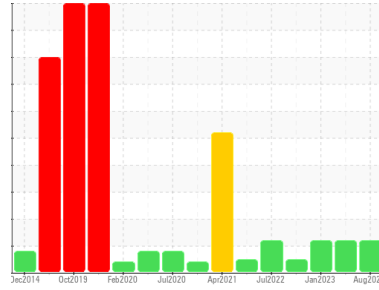


PROBLEM SUMMARY

Sample Rating Trend



ISO



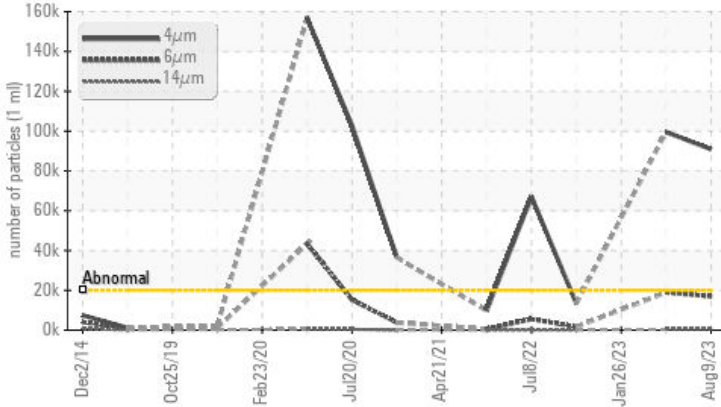
Machine Id
BT-F0R-A11 (S/N A11 TANK WT2 AGITATOR)

Component
Gearbox

Fluid
SHELL OMALA S2 GX 220 (--- GAL)

COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

Filter oil if possible using B6=75 media or better.
Resample at next normal interval.

PROBLEMATIC TEST RESULTS

Sample Status			ABNORMAL	ABNORMAL	ABNORMAL
Particles >4µm	ASTM D7647	>20000	▲ 90873	▲ 99493	---
Particles >6µm	ASTM D7647	>5000	▲ 16946	▲ 18970	---
Oil Cleanliness	ISO 4406 (c)	>21/19/16	▲ 24/21/16	▲ 24/21/16	---

Customer Id: MOMBAY
Sample No.: PLS0000473
Lab Number: 05926007
Test Package: PLANT



To manage this report scan the QR code

To discuss the diagnosis or test data:
Mike Johnson +1 (615)771-6030
mike.johnson@amrri.com

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

01 May 2023 Diag: Mike Johnson

ISO



Filter oil if possible using B6=75 media or better. Resample at next normal interval. Wear particles are low and acceptable. Particle contamination is elevated. Filtration can help to extend machine life. Fluid health indicators are acceptable for continued use.

view report



26 Jan 2023 Diag: Mike Johnson

VISUAL METAL



Sample is contaminated with visible metal particles. No particle contamination tests were run. Resample immediately with correct sampling procedures and if metal is present in the sample, consider filtering or changing oil. Fluid health indicators are acceptable for continued use provided that contamination can be controlled.

view report



18 Oct 2022 Diag: Mike Johnson

NORMAL



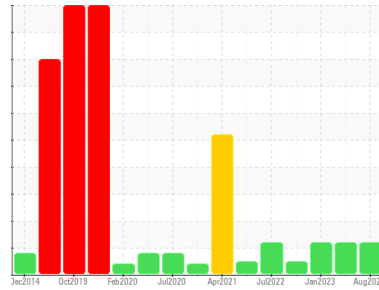
No actions necessary at this time. Resample at next normal interval. Wear particles are low and acceptable. Contamination is on par with new unfiltered oil. Filtering oil can extend machine life. Fluid health is acceptable for continued use.

view report



OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id
BT-F0R-A11 (S/N A11 TANK WT2 AGITATOR)

Component

Gearbox

Fluid

SHELL OMALA S2 GX 220 (--- GAL)

DIAGNOSIS

Recommendation

Filter oil if possible using B6=75 media or better. Resample at next normal interval.

Wear

Wear particles are low and acceptable.

Contamination

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

Fluid Condition

Fluid health indicators are acceptable for continued use.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		PLS0000473	PLS0000708	PLS0000633
Sample Date	Client Info		09 Aug 2023	01 May 2023	26 Jan 2023
Machine Age	mths	Client Info	0	0	3
Oil Age	mths	Client Info	0	3	0
Oil Changed	Client Info		N/A	Changed	N/A
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL

WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184		9	9	12
Iron	ppm	ASTM D5185m >200	31	28	20
Chromium	ppm	ASTM D5185m >15	0	<1	0
Nickel	ppm	ASTM D5185m >15	0	<1	0
Titanium	ppm	ASTM D5185m	<1	<1	0
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >25	0	1	0
Lead	ppm	ASTM D5185m >100	0	0	0
Copper	ppm	ASTM D5185m >200	<1	0	0
Tin	ppm	ASTM D5185m >25	0	<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	<1	0	0
Molybdenum	ppm	ASTM D5185m 0	<1	<1	<1
Manganese	ppm	ASTM D5185m	<1	<1	0
Magnesium	ppm	ASTM D5185m 0	3	0	2
Calcium	ppm	ASTM D5185m 0.0	6	13	7
Phosphorus	ppm	ASTM D5185m 290	245	304	286
Zinc	ppm	ASTM D5185m 3.8	11	0	11
Sulfur	ppm	ASTM D5185m 8167	10464	13517	9474

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	<1	<1	<1
Sodium	ppm	ASTM D5185m	0	<1	0
Potassium	ppm	ASTM D5185m >20	<1	<1	<1

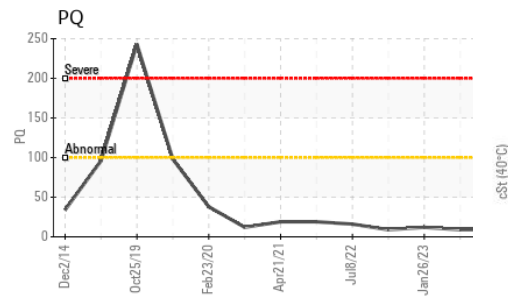
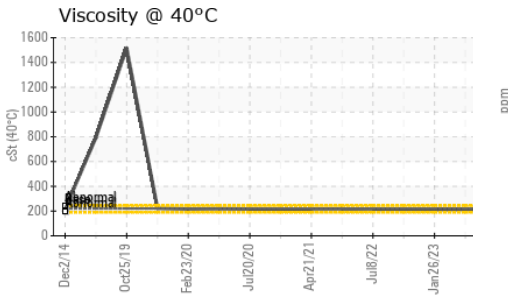
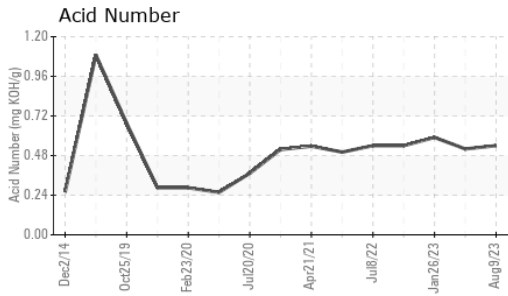
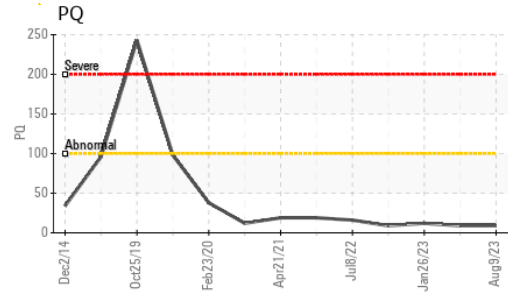
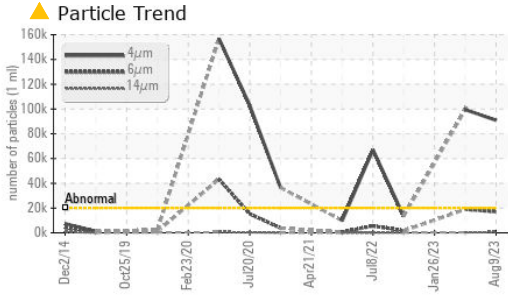
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	0	0	0.1
Nitration	Abs/cm	*ASTM D7624	2.9	2.9	3.2
Sulfation	Abs/.1mm	*ASTM D7415	12.0	12.5	12.3

FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	▲ 90873	▲ 99493	---
Particles >6µm	ASTM D7647	>5000	▲ 16946	▲ 18970	---
Particles >14µm	ASTM D7647	>640	510	386	---
Particles >21µm	ASTM D7647	>160	127	56	---
Particles >38µm	ASTM D7647	>40	4	1	---
Particles >71µm	ASTM D7647	>10	0	0	---
Oil Cleanliness	ISO 4406 (c)	>21/19/16	▲ 24/21/16	▲ 24/21/16	---


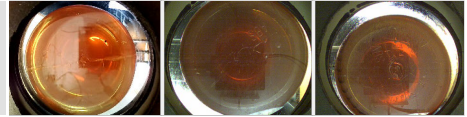
OIL ANALYSIS REPORT



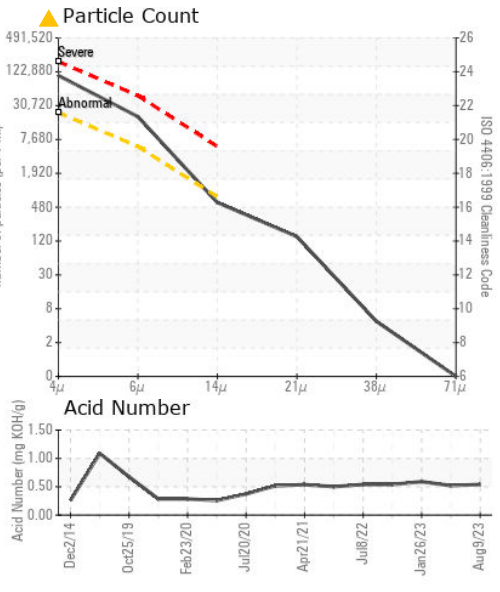
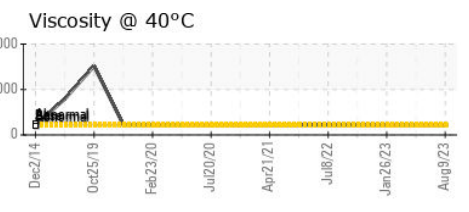
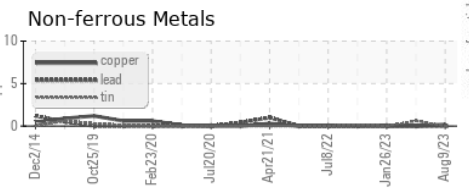
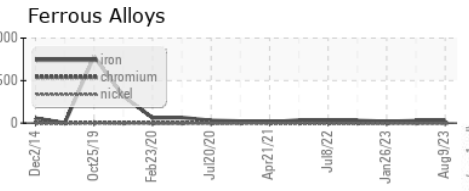
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	*ASTM D7414		2.9	3.0	3.0
Acid Number (AN)	mg KOH/g	ASTM D8045		0.54	0.52	0.59

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	▲ MODER
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 PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	220	211	213	212

SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						
Bottom						

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PLS0000473
Lab Number : **05926007**
Unique Number : 10605954
Test Package : PLANT (Additional Tests: FT-IR, PrtCount)

HEXION - BAYTOWN PLANT
 8450 WEST BAY RD
 BAYTOWN, TX
 US 77520
 Contact: PAT BELL
 pat.bell@momentive.com

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)