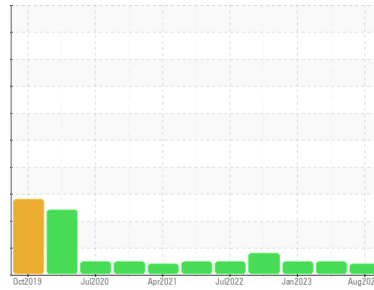


PROBLEM SUMMARY

Sample Rating Trend



VIS DEBRIS



Machine Id
BT-F01-P10M (S/N P10M COOLING TOWER PUMP MOTOR)
Component
Bottom Bearing
Fluid
SHELL TURBO T 32 (--- GAL)

COMPONENT CONDITION SUMMARY

No relevant graphs to display

RECOMMENDATION

Visible debris in the oil prevented a particle count. Resample again to confirm result. Adhere to good sampling techniques.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	NORMAL	NORMAL
Debris	scalar	*Visual	NONE	▲ MODER	NONE	LIGHT

Customer Id: MOMBAY
Sample No.: PLS0000476
Lab Number: 05926001
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@amri.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

NORMAL



No action required at this time. Resample at next normal interval. Wear particles are low and acceptable. Contamination is on par with new unfiltered oil. Filtration can help to extend machine life. Viscosity is slightly elevated but all other health indicators are healthy.

view report



26 Jan 2023 Diag: Mike Johnson

NORMAL



Filter oil if possible using B6=75 filter media or better. No other action recommended at this time. Resample at next normal interval. Wear particles are low and acceptable. Particle contamination is elevated. Filtration can help extend machine life. Fluid health is acceptable for continued use.

view report



17 Oct 2022 Diag: Mike Johnson

ISO



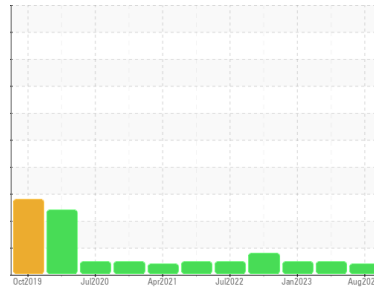
Filter oil if possible using B6=75 filter media or better. No other action required at this time. Resample at next normal interval. Wear particles are low and acceptable. Particle contamination is slightly elevated. Filter oil if possible. Fluid health is acceptable for continued use.

view report



OIL ANALYSIS REPORT

Sample Rating Trend



VIS DEBRIS



Machine Id
BT-F01-P10M (S/N P10M COOLING TOWER PUMP MOTOR)
Component
Bottom Bearing
Fluid
SHELL TURBO T 32 (--- GAL)

DIAGNOSIS

▲ Recommendation

Visible debris in the oil prevented a particle count. Resample again to confirm result. Adhere to good sampling techniques.

Wear

Wear particles are low and acceptable.

▲ Contamination

Particle count was not conducted due to visible particulate in the oil.

Fluid Condition

Fluid health indicators are acceptable for continued use.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		PLS0000476	PLS0000720	PLS0000635
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	6	3
Oil Changed	Client Info		N/A	Not Chngd	N/A
Sample Status			ABNORMAL	NORMAL	NORMAL

WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184		16	9	13
Iron	ppm	ASTM D5185m >20	2	<1	<1
Chromium	ppm	ASTM D5185m >20	0	<1	0
Nickel	ppm	ASTM D5185m >20	0	<1	0
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >20	0	<1	0
Lead	ppm	ASTM D5185m >20	<1	0	0
Copper	ppm	ASTM D5185m >20	<1	0	0
Tin	ppm	ASTM D5185m >20	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	0	0	0
Barium	ppm	ASTM D5185m	<1	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0
Manganese	ppm	ASTM D5185m	<1	<1	0
Magnesium	ppm	ASTM D5185m	0	0	0
Calcium	ppm	ASTM D5185m	<1	3	0
Phosphorus	ppm	ASTM D5185m	8	14	4
Zinc	ppm	ASTM D5185m	3	0	<1
Sulfur	ppm	ASTM D5185m	118	145	0

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	2	<1	<1
Sodium	ppm	ASTM D5185m	0	<1	0
Potassium	ppm	ASTM D5185m >20	<1	<1	<1

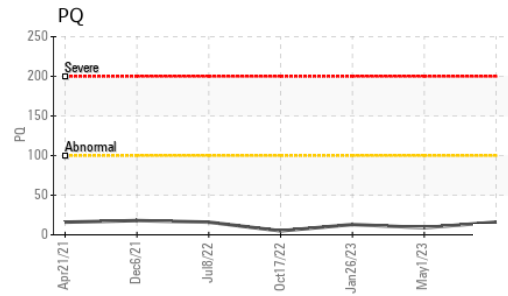
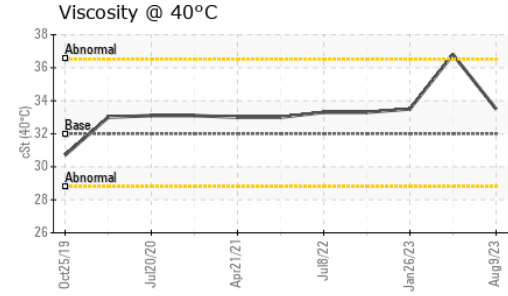
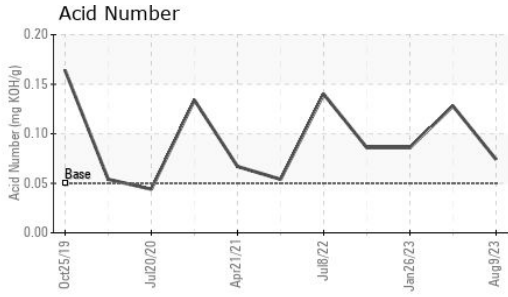
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	0	0	0
Nitration	Abs/cm	*ASTM D7624	1.6	1.7	1.9
Sulfation	Abs/.1mm	*ASTM D7415	10.4	10.9	10.7

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	2.3	2.3	2.2
Acid Number (AN)	mg KOH/g	ASTM D8045 .05	0.074	0.128	0.086

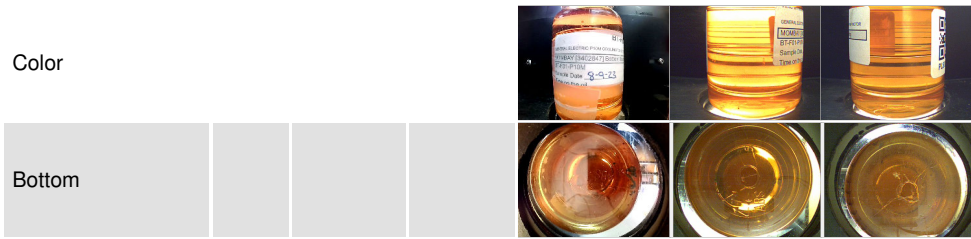
OIL ANALYSIS REPORT



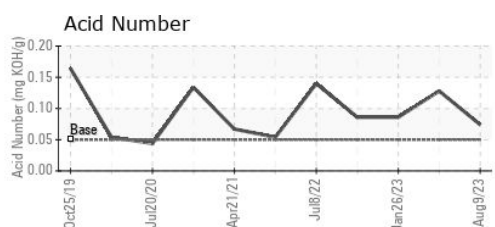
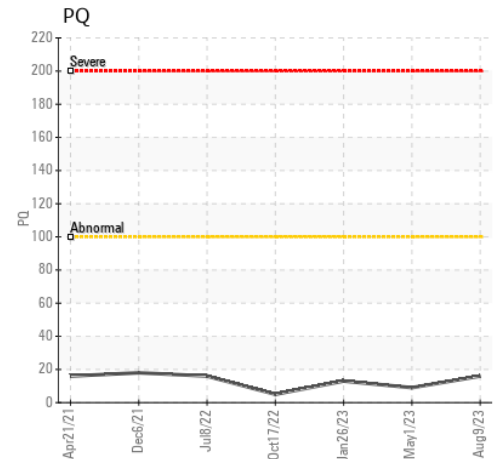
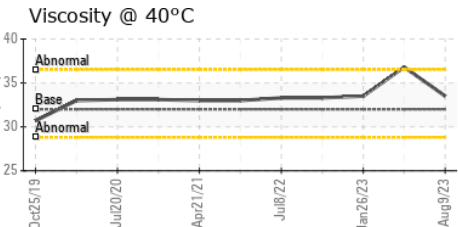
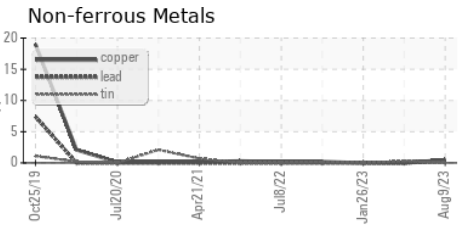
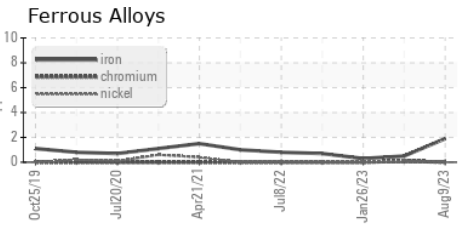
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	▲ MODER	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	32	33.5	36.8

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PLS0000476 **Received** : 16 Aug 2023
Lab Number : 05926001 **Diagnosed** : 23 Aug 2023
Unique Number : 10605948 **Diagnostician** : Mike Johnson
Test Package : PLANT (Additional Tests: FT-IR)

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)