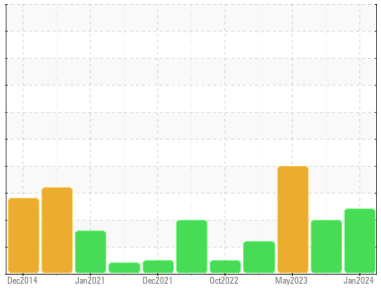
OIL ANALYSIS REPORT

Sample Rating Trend



ISO

Machine Id
BT-F01-B1M (S/N B1 RECYCLE BLOWER MOTOR)
Component
Drive End Bearing
Fluid
SHELL TURBO T ISO 32 (--- GAL)

DIAGNOSIS

Recommendation
Filter oil if possible using B6=75 filter media or better. No other actions needed at this time. Resample at next normal interval.

Wear
Wear is low and acceptable.

Contamination
Contaminant levels are typical for new oil from the drum.

Fluid Condition
Fluid health is acceptable for continued use.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**PLS0000789**	PLS0000774	PLS0000713
Sample Date		Client Info		**31 Jan 2024**	24 Oct 2023	01 May 2023
Machine Age	mths	Client Info		**3**	0	0
Oil Age	mths	Client Info		**0**	1	3
Oil Changed		Client Info		**N/A**	Changed	Not Changd
Sample Status				**ABNORMAL**	ABNORMAL	SEVERE

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>2	**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		**19**	8	13
Iron	ppm	ASTM D5185m	>20	**2**	0	3
Chromium	ppm	ASTM D5185m	>20	**0**	0	<1
Nickel	ppm	ASTM D5185m	>20	**0**	0	<1
Titanium	ppm	ASTM D5185m		**0**	<1	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>20	**0**	0	2
Lead	ppm	ASTM D5185m	>20	**0**	0	<1
Copper	ppm	ASTM D5185m	>20	**<1**	<1	6
Tin	ppm	ASTM D5185m	>20	**<1**	0	2
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	<1
Manganese	ppm	ASTM D5185m		**<1**	0	<1
Magnesium	ppm	ASTM D5185m		**<1**	0	0
Calcium	ppm	ASTM D5185m		**2**	0	1
Phosphorus	ppm	ASTM D5185m		**20**	18	▲ 93
Zinc	ppm	ASTM D5185m		**7**	0	0
Sulfur	ppm	ASTM D5185m		**732**	▲ 1609	▲ 4348

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

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		**0**	0	0
Nitration	Abs/cm	*ASTM D7624		**1.8**	1.9	2.5
Sulfation	Abs/.1mm	*ASTM D7415		**10.7**	11.0	11.4

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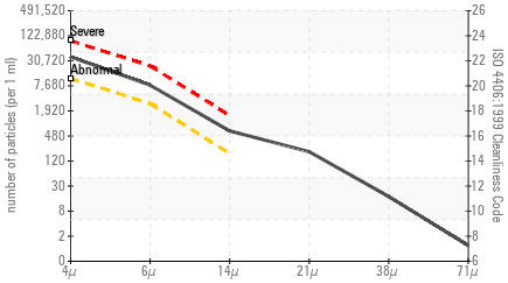
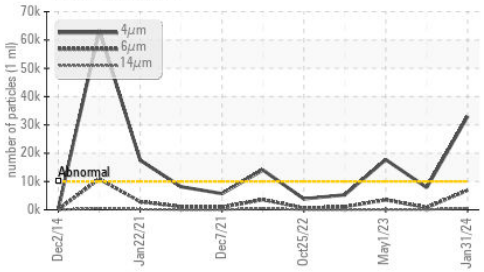
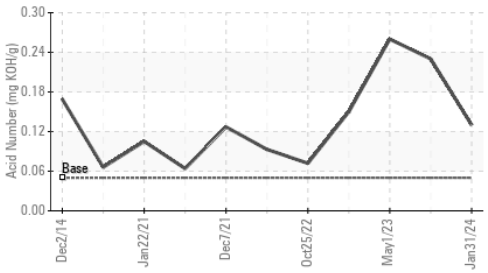
Particle Count



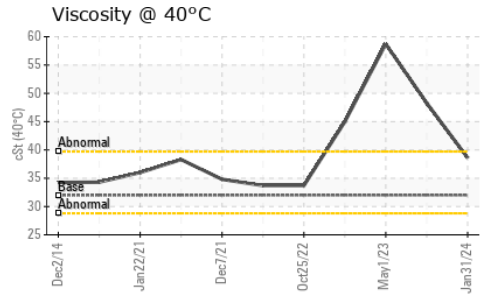
Particle Trend



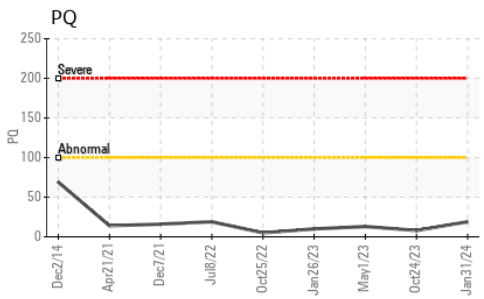
Acid Number



Viscosity @ 40°C



PQ



FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	▲ **33014**	7872	▲ 17751
Particles >6µm		ASTM D7647	>2500	▲ **6928**	826	▲ 3542
Particles >14µm		ASTM D7647	>160	▲ **558**	87	97
Particles >21µm		ASTM D7647	>40	▲ **177**	29	16
Particles >38µm		ASTM D7647	>10	▲ **15**	4	2
Particles >71µm		ASTM D7647	>3	**1**	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/14	▲ **22/20/16**	20/17/14	▲ 21/19/14

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414		**2.4**	2.8	3.0
Acid Number (AN)	mg KOH/g	ASTM D8045	.05	**0.13**	▲ 0.23	▲ 0.26

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	LIGHT
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	>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	32	**38.6**	▲ 48.3	⬢ 58.7

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PLS0000789 **Received** : 01 Feb 2024
Lab Number : 06077603 **Tested** : 02 Feb 2024
Unique Number : 10859694 **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.*
Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

HEXION - BAYTOWN PLANT
8450 WEST BAY RD
BAYTOWN, TX
US 77520
Contact: BILL MINER
bill.miner@momentive.com
T:
F: