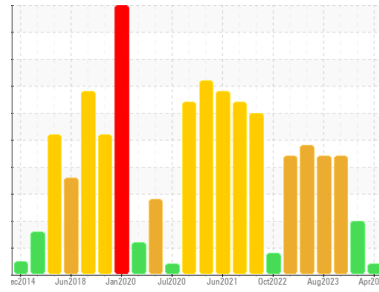


OIL ANALYSIS REPORT

Sample Rating Trend



VIS DEBRIS



Machine Id
BT-F01-B2 (S/N B2 FRESH AIR BLOWER)
Component
Blower
Fluid
SHELL TELLUS S2 MX 100 (--- GAL)

DIAGNOSIS

Recommendation

Visible debris in the sample prevented a proper particle count. Filter oil if possible using B6=75 filter media or better. Confirm oil sampling techniques. Resample at next normal interval, or immediately if desiring a proper particle count.

Wear

Wear particles are low and steady. Copper wear is of note but has not increased.

Contamination

Particle contamination was not conducted due to visible particulate. Review seals and breathers. Review oil sampling techniques. Filtration can help 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			PLS0000294	PLS0000806	PLS0000777
Sample Date	Client Info			17 Apr 2024	31 Jan 2024	24 Oct 2023
Machine Age	mths	Client Info		3	3	0
Oil Age	mths	Client Info		0	0	1
Oil Changed	Client Info			N/A	N/A	Changed
Sample Status				ABNORMAL	ABNORMAL	SEVERE

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

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		9	11	15
Iron	ppm	ASTM D5185m	>20	0	0	1
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	0	0
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	14	16	▲ 81
Tin	ppm	ASTM D5185m	>20	0	0	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		0	<1	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		68	65	26
Calcium	ppm	ASTM D5185m		3	2	0
Phosphorus	ppm	ASTM D5185m		314	300	230
Zinc	ppm	ASTM D5185m		345	348	264
Sulfur	ppm	ASTM D5185m		1037	800	579

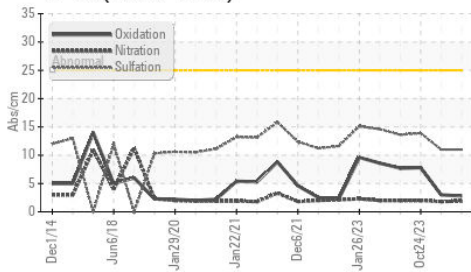
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	3	4	▲ 21
Sodium	ppm	ASTM D5185m		2	0	<1
Potassium	ppm	ASTM D5185m	>20	<1	0	0

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624		1.9	1.8	2.0
Sulfation	Abs/.1mm	*ASTM D7415		11.0	11.0	13.9

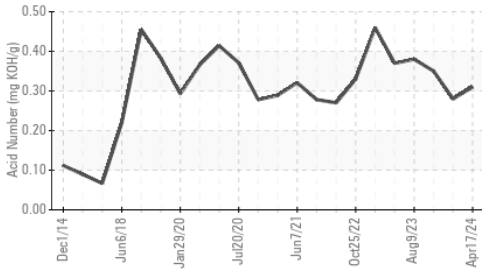
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414		2.8	3.0	7.8
Acid Number (AN)	mg KOH/g	ASTM D8045		0.31	0.28	0.35

OIL ANALYSIS REPORT

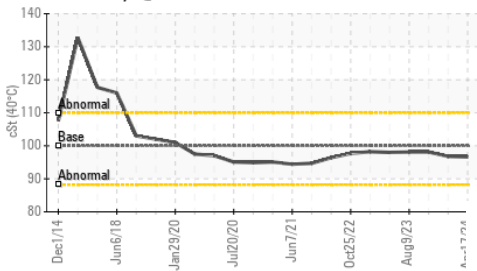
FT-IR (Direct Trend)



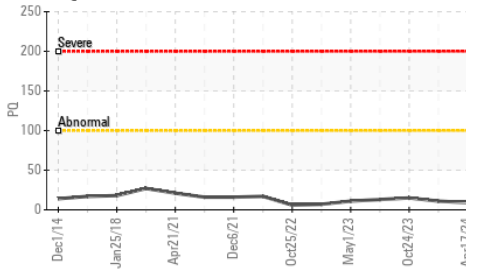
Acid Number



Viscosity @ 40°C



PQ

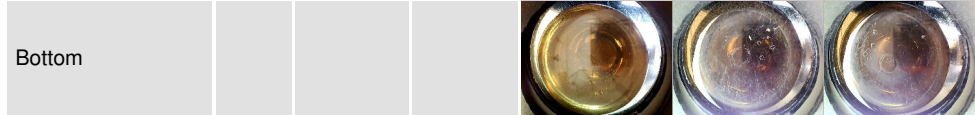


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	▲ MODER	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 100	96.6	96.8	98.1

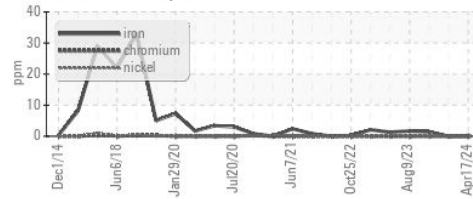
SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color

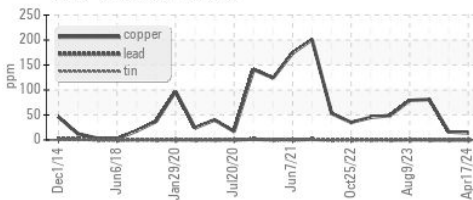


GRAPHS

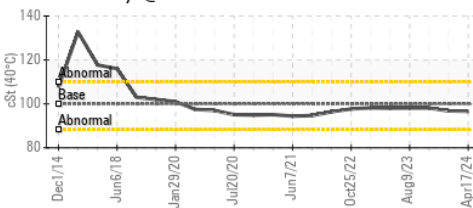
Ferrous Alloys



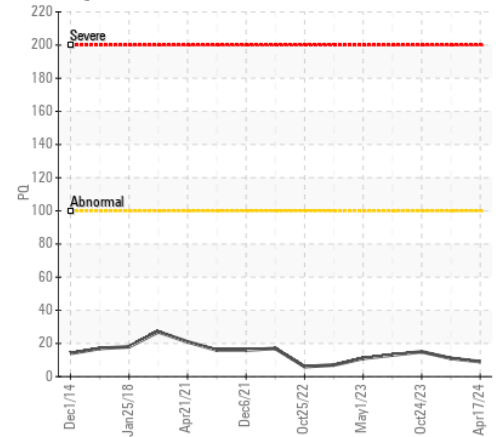
Non-ferrous Metals



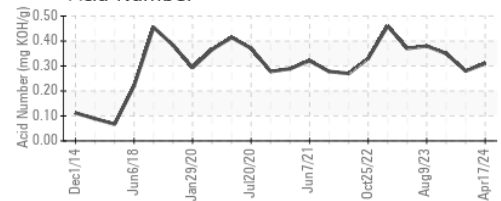
Viscosity @ 40°C



PQ



Acid Number



Certificate L2367

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

Sample No. : PLS0000294

Lab Number : 06154198

Unique Number : 10989621

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

Received : 19 Apr 2024

Tested : 06 May 2024

Diagnosed : 08 May 2024 - Mike Johnson

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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US 77520

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