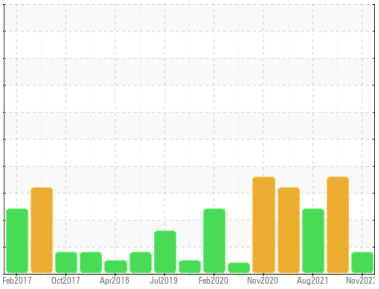
PROBLEM SUMMARY

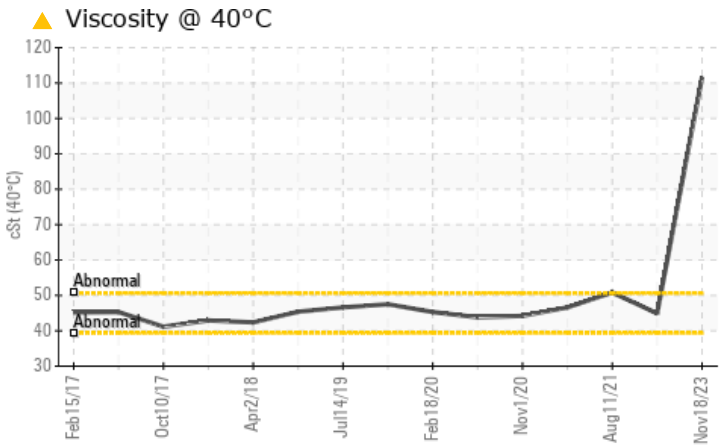
Sample Rating Trend

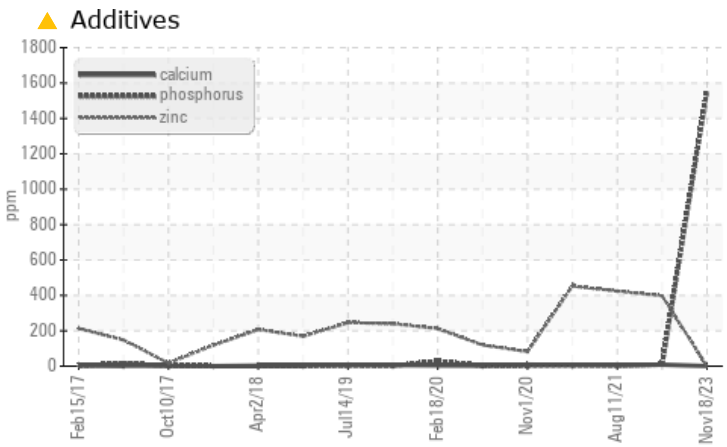


VISCOSITY

Machine Id
NORTHEAST 2 (S/N 003-79839)
Component
Compressor
Fluid
{not provided} (--- GAL)

COMPONENT CONDITION SUMMARY





RECOMMENDATION

We advise an early resample to confirm this situation.

PROBLEMATIC TEST RESULTS

Sample Status			**ATTENTION**	ABNORMAL	ABNORMAL
Phosphorus	ppm	ASTM D5185m	**1555**	9	3
Visc @ 40°C	cSt	ASTM D445	**111.6**	44.9	50.8

Customer Id: JBSBEA
Sample No.: USPM31304
Lab Number: 06010887
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Doug Bogart +1 (800)237-1369 x4016
dougb@wearcheckusa.com

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

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Resample	---	---	?	We advise an early resample to confirm this situation.

HISTORICAL DIAGNOSIS

13 Jul 2023 Diag: Doug Bogart

WATER

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.The iron level is abnormal. The copper level is abnormal. Moderate concentration of visible dirt/debris present in the oil. There is a moderate concentration of water present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

---

11 Aug 2021 Diag: Doug Bogart

WATER

We advise that you follow the water drain-off procedure for this component. Resample at the next service interval to monitor.The copper level is abnormal. All other component wear rates are normal. There is a light concentration of water present in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

---

05 May 2021 Diag: Doug Bogart

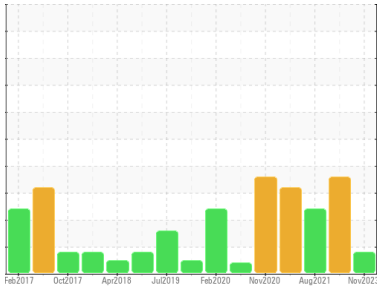
WATER

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.The copper level is abnormal. All other component wear rates are normal. There is a moderate amount of visible silt present in the sample. There is a light concentration of water present in the oil. The AN level is acceptable for this fluid.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY

Machine Id
NORTHEAST 2 (S/N 003-79839)
Component
Compressor
Fluid
{not provided} (--- GAL)

DIAGNOSIS

Recommendation
We advise an early resample to confirm this situation.

Wear
All component wear rates are normal.

Contamination
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Fluid Condition
The oil viscosity is higher than normal. This plus the additive levels indicates the addition of a different brand or type of oil. Confirm oil type. The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**USPM31304**	USPM27401	USPM18843
Sample Date		Client Info		**18 Nov 2023**	13 Jul 2023	11 Aug 2021
Machine Age	hrs	Client Info		**0**	0	0
Oil Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**ATTENTION**	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	**0**	▲ 138	3
Chromium	ppm	ASTM D5185m	>10	**0**	<1	0
Nickel	ppm	ASTM D5185m		**0**	<1	<1
Titanium	ppm	ASTM D5185m		**0**	<1	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>25	**0**	3	<1
Lead	ppm	ASTM D5185m	>25	**0**	8	2
Copper	ppm	ASTM D5185m	>50	**0**	▲ 259	▲ 89
Tin	ppm	ASTM D5185m	>15	**<1**	3	0
Antimony	ppm	ASTM D5185m		**---**	---	1
Vanadium	ppm	ASTM D5185m		**0**	<1	0
Cadmium	ppm	ASTM D5185m		**0**	<1	<1

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**0**	0	4
Barium	ppm	ASTM D5185m		**0**	448	443
Molybdenum	ppm	ASTM D5185m		**0**	0	0
Manganese	ppm	ASTM D5185m		**0**	1	<1
Magnesium	ppm	ASTM D5185m		**0**	3	<1
Calcium	ppm	ASTM D5185m		**0**	8	6
Phosphorus	ppm	ASTM D5185m		▲ **1555**	9	3
Zinc	ppm	ASTM D5185m		**0**	397	424
Sulfur	ppm	ASTM D5185m		**24**	665	488

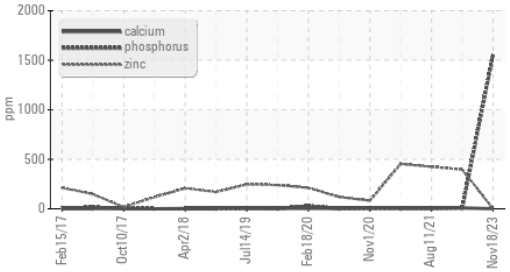
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	**6**	<1	<1
Sodium	ppm	ASTM D5185m		**0**	24	18
Potassium	ppm	ASTM D5185m	>20	**0**	4	2
Water	%	ASTM D6304	>0.1	**0.036**	▲ 0.540	▲ 0.503
ppm Water	ppm	ASTM D6304	>1000	**365.0**	▲ 5400.5	▲ 5033.6

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	**3806**	---	580
Particles >6µm	ASTM D7647	>2500	**1454**	---	123
Particles >14µm	ASTM D7647	>320	**148**	---	9
Particles >21µm	ASTM D7647	>80	**30**	---	4
Particles >38µm	ASTM D7647	>20	**2**	---	0
Particles >71µm	ASTM D7647	>4	**0**	---	0
Oil Cleanliness	ISO 4406 (c)	>20/18/15	**19/18/14**	---	16/14/10

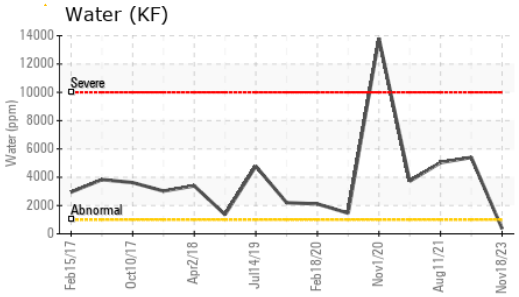
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.21**	0.95	1.447

OIL ANALYSIS REPORT

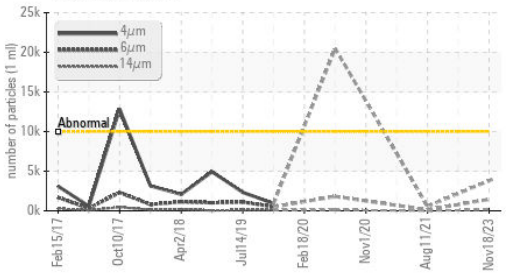
▲ Additives



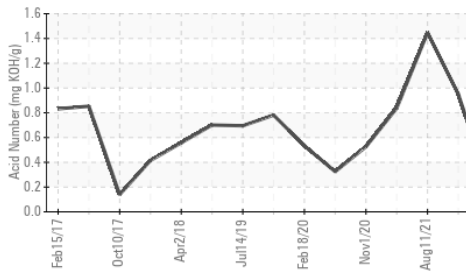
Water (KF)



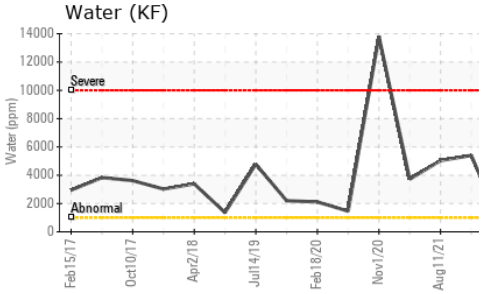
Particle Trend



Acid Number

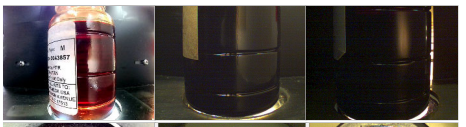


Water (KF)



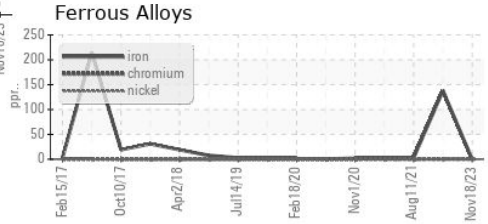
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	▲ MODER	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**NORML**	NORML	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		▲ **111.6**	44.9	50.8

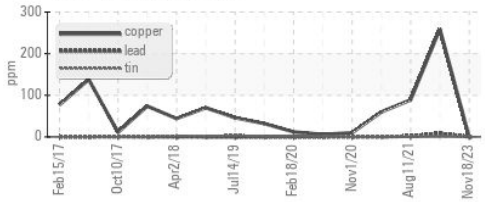
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

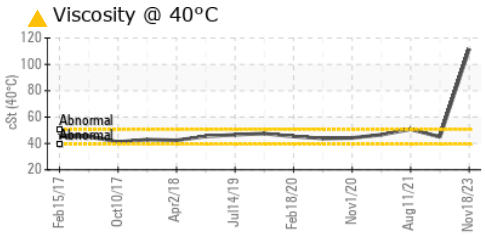
Ferrous Alloys



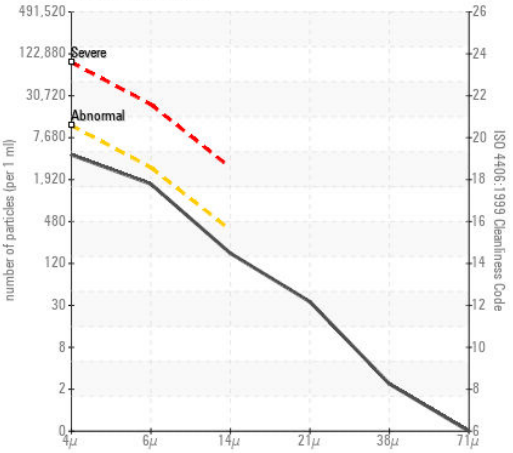
Non-ferrous Metals



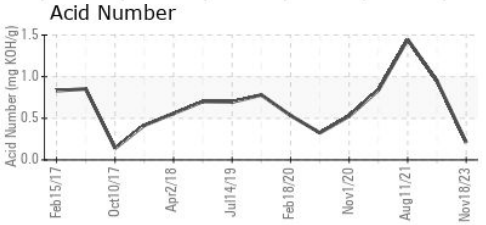
▲ Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : USPM31304
Lab Number : 06010887
Unique Number : 10750031
Test Package : IND 2

Received : 17 Nov 2023
Diagnosed : 22 Nov 2023
Diagnostician : Doug Bogart

JBS - BEARDSTOWN
8295 ARENZVILLE RD
BEARDSTOWN, IL
US 62618
Contact:
T:
F:

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)