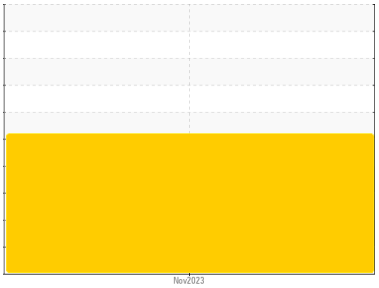
PROBLEM SUMMARY

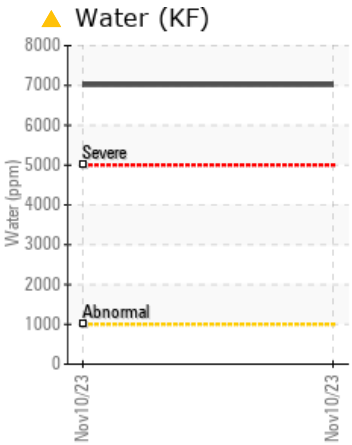
Sample Rating Trend

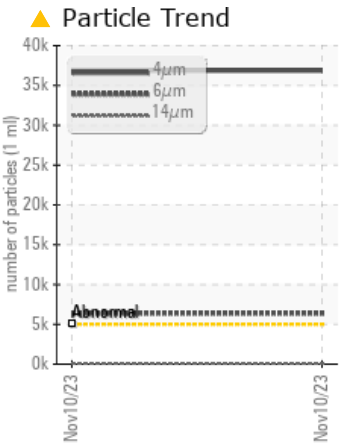


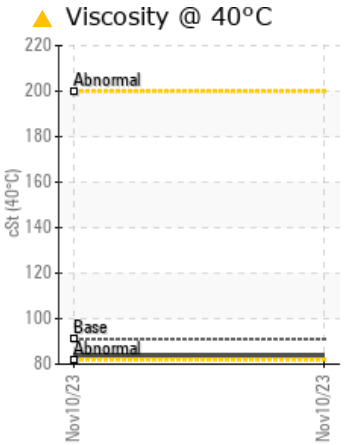
WATER

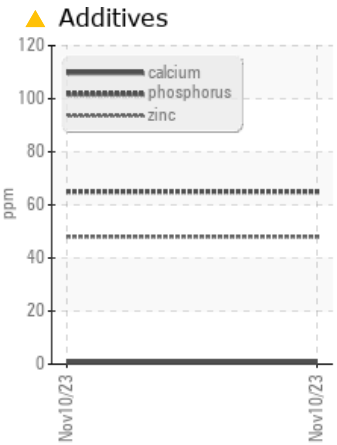
Machine Id
S MARLEN LEYBOLD SV200 (S/N U141100116)
Component
Vacuum Pump
Fluid
USPI VAC 100 (--- GAL)

COMPONENT CONDITION SUMMARY









RECOMMENDATION

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				**ABNORMAL**	---	---
Phosphorus	ppm	ASTM D5185m	1800	▲ **65**	---	---
Zinc	ppm	ASTM D5185m	0	▲ **48**	---	---
Sulfur	ppm	ASTM D5185m	0	▲ **1336**	---	---
Water	%	ASTM D6304	>.1	▲ **0.712**	---	---
ppm Water	ppm	ASTM D6304	>1000	▲ **7017**	---	---
Particles >4µm		ASTM D7647	>5000	▲ **36865**	---	---
Particles >6µm		ASTM D7647	>1300	▲ **6395**	---	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ **22/20/14**	---	---
Appearance	scalar	*Visual	NORML	▲ **HAZY**	---	---
Emulsified Water	scalar	*Visual	>.1	▲ **0.2%**	---	---
Visc @ 40°C	cSt	ASTM D445	91	▲ **83.8**	---	---

Customer Id: TYSKAN
Sample No.: USPM31288
Lab Number: 06008346
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

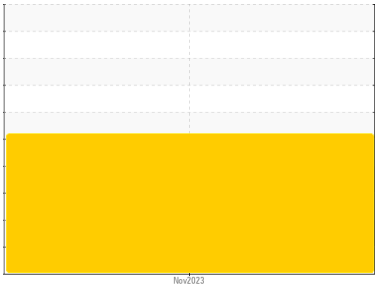
RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Filter	---	---	?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.
Filter Fluid	---	---	?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.

HISTORICAL DIAGNOSIS

OIL ANALYSIS REPORT

Sample Rating Trend



WATER

Machine Id
S MARLEN LEYBOLD SV200 (S/N U141100116)
Component
Vacuum Pump
Fluid
USPI VAC 100 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil. Appearance is hazy. There is a moderate concentration of water present in the oil.

Fluid Condition

The oil viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirmed. The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**USPM31288**	---	---
Sample Date		Client Info		**10 Nov 2023**	---	---
Machine Age	hrs	Client Info		**0**	---	---
Oil Age	hrs	Client Info		**0**	---	---
Oil Changed		Client Info		**N/A**	---	---
Sample Status				**ABNORMAL**	---	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	**7**	---	---
Chromium	ppm	ASTM D5185m	>20	**0**	---	---
Nickel	ppm	ASTM D5185m	>20	**0**	---	---
Titanium	ppm	ASTM D5185m		**0**	---	---
Silver	ppm	ASTM D5185m		**0**	---	---
Aluminum	ppm	ASTM D5185m	>20	**8**	---	---
Lead	ppm	ASTM D5185m	>20	**0**	---	---
Copper	ppm	ASTM D5185m	>20	**<1**	---	---
Tin	ppm	ASTM D5185m	>20	**0**	---	---
Vanadium	ppm	ASTM D5185m		**<1**	---	---
Cadmium	ppm	ASTM D5185m		**0**	---	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	**0**	---	---
Barium	ppm	ASTM D5185m	0	**0**	---	---
Molybdenum	ppm	ASTM D5185m	0	**0**	---	---
Manganese	ppm	ASTM D5185m		**<1**	---	---
Magnesium	ppm	ASTM D5185m	0	**0**	---	---
Calcium	ppm	ASTM D5185m	0	**<1**	---	---
Phosphorus	ppm	ASTM D5185m	1800	▲ **65**	---	---
Zinc	ppm	ASTM D5185m	0	▲ **48**	---	---
Sulfur	ppm	ASTM D5185m	0	▲ **1336**	---	---

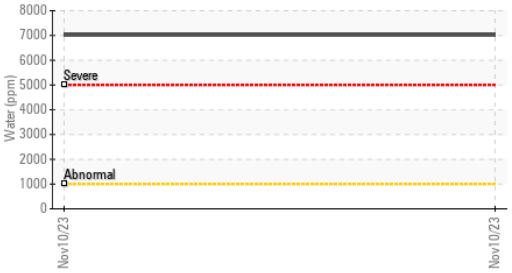
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	**3**	---	---
Sodium	ppm	ASTM D5185m		**<1**	---	---
Potassium	ppm	ASTM D5185m	>20	**<1**	---	---
Water	%	ASTM D6304	>.1	▲ **0.712**	---	---
ppm Water	ppm	ASTM D6304	>1000	▲ **7017**	---	---

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	▲ **36865**	---	---
Particles >6µm	ASTM D7647	>1300	▲ **6395**	---	---
Particles >14µm	ASTM D7647	>160	**93**	---	---
Particles >21µm	ASTM D7647	>40	**11**	---	---
Particles >38µm	ASTM D7647	>10	**4**	---	---
Particles >71µm	ASTM D7647	>3	**1**	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ **22/20/14**	---	---

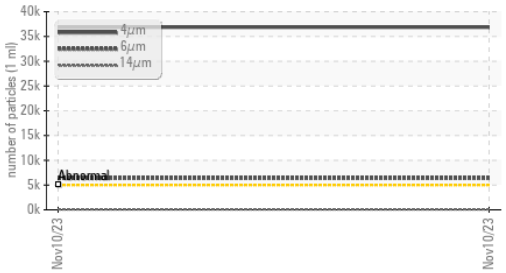
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.05	**0.17**	---	---

OIL ANALYSIS REPORT

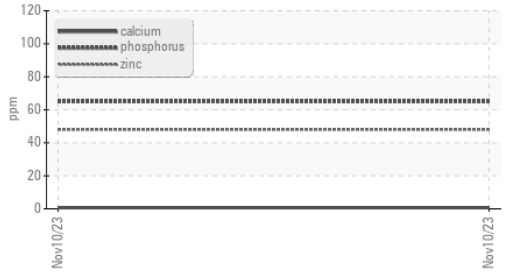
Water (KF)



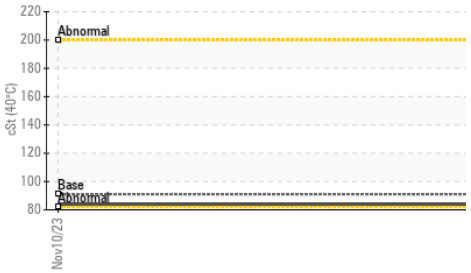
Particle Trend



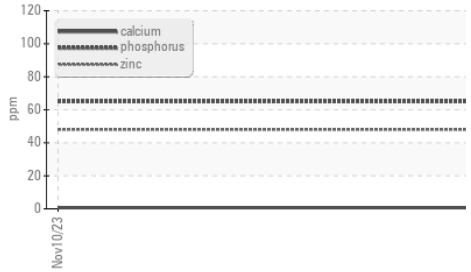
Additives



Viscosity @ 40°C



Additives



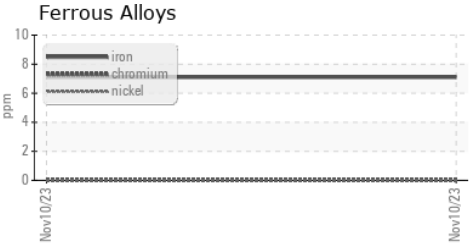
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	---	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	---	---
Precipitate	scalar	*Visual	NONE	**NONE**	---	---
Silt	scalar	*Visual	NONE	**NONE**	---	---
Debris	scalar	*Visual	NONE	**NONE**	---	---
Sand/Dirt	scalar	*Visual	NONE	**NONE**	---	---
Appearance	scalar	*Visual	NORML	▲ **HAZY**	---	---
Odor	scalar	*Visual	NORML	**NORML**	---	---
Emulsified Water	scalar	*Visual	>.1	▲ **0.2%**	---	---
Free Water	scalar	*Visual		**NEG**	---	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	91	▲ **83.8**	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				*no image*	*no image*
Bottom				*no image*	*no image*

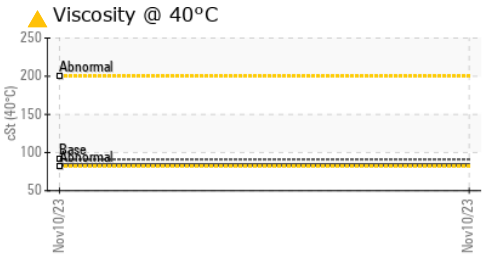
GRAPHS

Ferrous Alloys

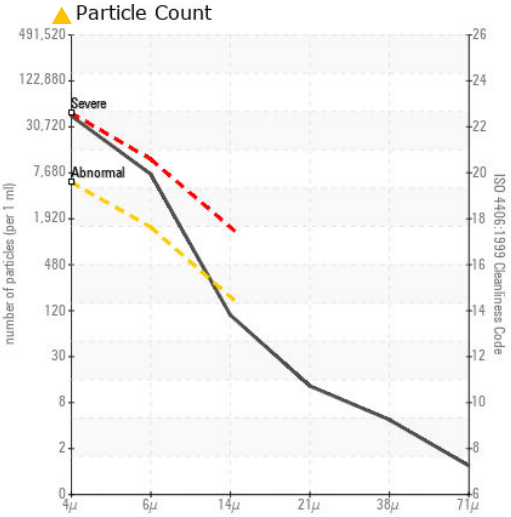


Non-ferrous Metals

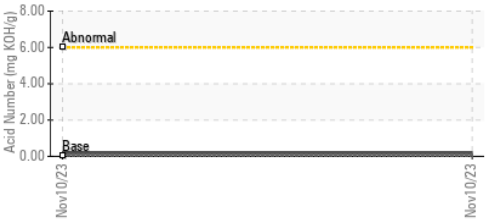
Viscosity @ 40°C



Particle Count



Acid Number



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : USPM31288
Lab Number : 06008346
Unique Number : 10742108
Test Package : IND 2

Received : 15 Nov 2023
Diagnosed : 21 Nov 2023
Diagnostician : Doug Bogart

Certificate L2367

TYSON - HILLSHIRE BRANDS
4612 SPEAKER RD
KANSAS CITY, KS
US 66105
Contact: WILLIAM KENNEDY

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)

T:
F: