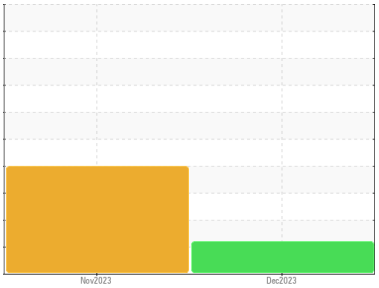
PROBLEM SUMMARY

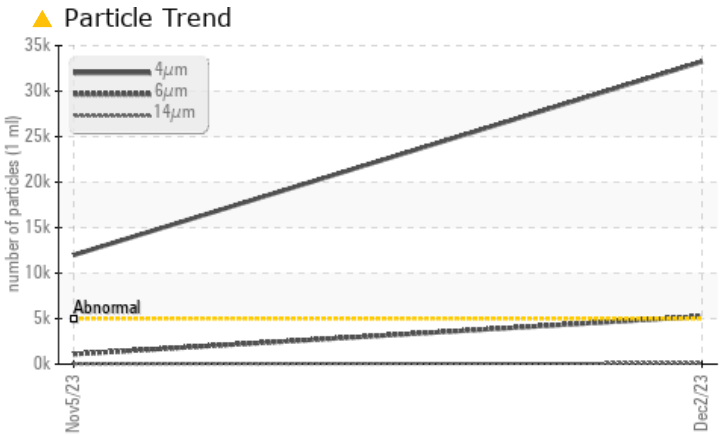
Sample Rating Trend



ISO

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

COMPONENT CONDITION SUMMARY



RECOMMENDATION

Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				**ABNORMAL**	ABNORMAL	---
Particles >4µm		ASTM D7647	>5000	▲ **33244**	▲ 11984	---
Particles >6µm		ASTM D7647	>1300	▲ **5253**	1102	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ **22/20/14**	▲ 21/17/12	---

Customer Id: TYSKAN
Sample No.: USPM31970
Lab Number: 06028704
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

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

05 Nov 2023 Diag: Doug Bogart

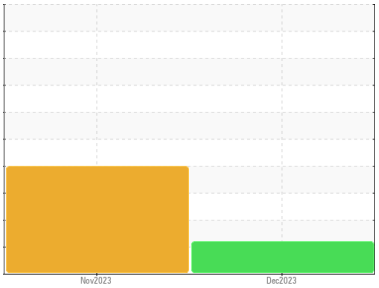
WATER

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.All component wear rates are normal. Appearance is hazy. There is a high amount of silt (particulates < 6 microns in size) present in the oil. There is a moderate concentration of water present in the oil. Additive levels indicate the addition of a different brand or type of oil. Confirmed. The AN level is acceptable for this fluid.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



ISO

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

DIAGNOSIS

Recommendation
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.

Fluid Condition
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**USPM31970**	USPM31279	---
Sample Date		Client Info		**02 Dec 2023**	05 Nov 2023	---
Machine Age	hrs	Client Info		**0**	0	---
Oil Age	hrs	Client Info		**0**	0	---
Oil Changed		Client Info		**N/A**	N/A	---
Sample Status				**ABNORMAL**	ABNORMAL	---

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

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	**0**	0	---
Barium	ppm	ASTM D5185m	0	**0**	0	---
Molybdenum	ppm	ASTM D5185m	0	**0**	0	---
Manganese	ppm	ASTM D5185m		**<1**	0	---
Magnesium	ppm	ASTM D5185m	0	**<1**	0	---
Calcium	ppm	ASTM D5185m	0	**<1**	0	---
Phosphorus	ppm	ASTM D5185m	1800	**645**	▲ 121	---
Zinc	ppm	ASTM D5185m	0	**0**	10	---
Sulfur	ppm	ASTM D5185m	0	**345**	▲ 826	---

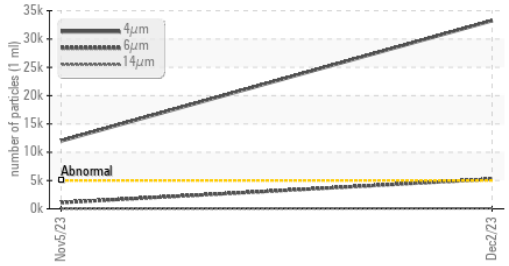
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	**5**	4	---
Sodium	ppm	ASTM D5185m		**1**	<1	---
Potassium	ppm	ASTM D5185m	>20	**<1**	<1	---
Water	%	ASTM D6304	>.1	**0.052**	▲ 0.535	---
ppm Water	ppm	ASTM D6304	>1000	**529**	▲ 5350	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	▲ **33244**	▲ 11984	---
Particles >6µm		ASTM D7647	>1300	▲ **5253**	1102	---
Particles >14µm		ASTM D7647	>160	**94**	24	---
Particles >21µm		ASTM D7647	>40	**11**	6	---
Particles >38µm		ASTM D7647	>10	**0**	1	---
Particles >71µm		ASTM D7647	>3	**0**	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ **22/20/14**	▲ 21/17/12	---

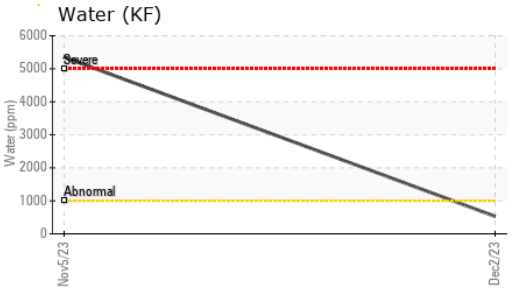
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.05	**0.094**	0.14	---

OIL ANALYSIS REPORT

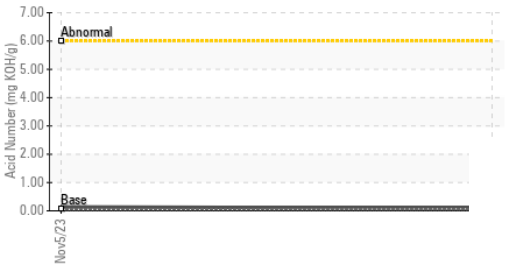
Particle Trend



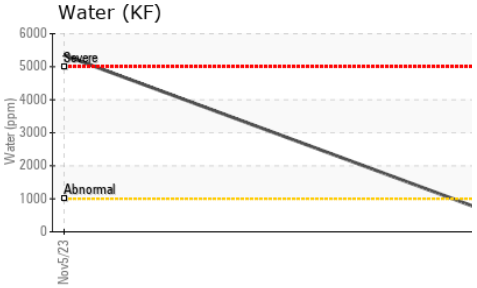
Water (KF)



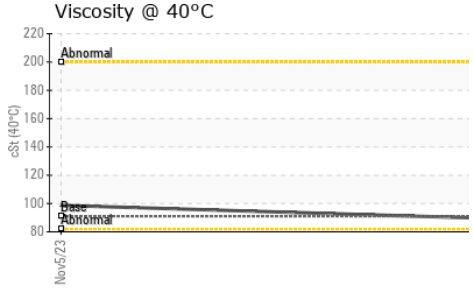
Acid Number



Water (KF)



Viscosity @ 40°C



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	**LIGHT**	NONE	---
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	---
Appearance	scalar	*Visual	NORML	**NORML**	▲ HAZY	---
Odor	scalar	*Visual	NORML	**NORML**	NORML	---
Emulsified Water	scalar	*Visual	>.1	**NEG**	▲ 0.2%	---
Free Water	scalar	*Visual		**NEG**	NEG	---

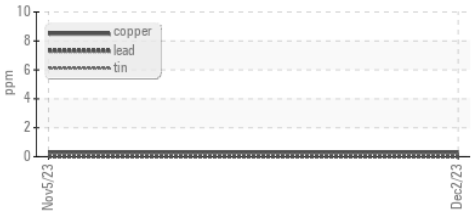
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	91	**89.4**	98.7	---

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

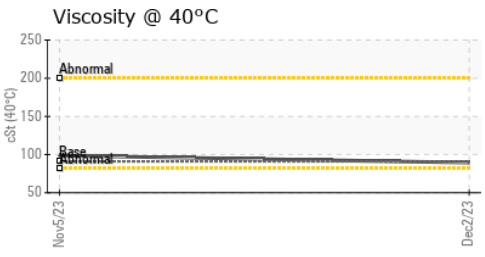
GRAPHS

Ferrous Alloys

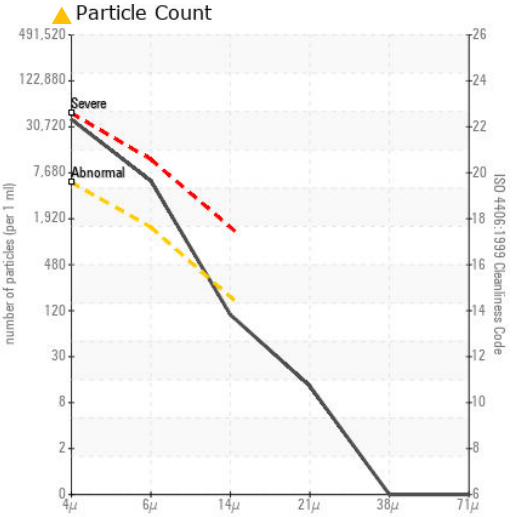
Non-ferrous Metals



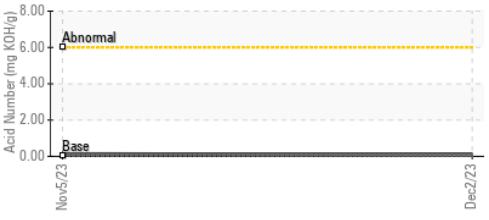
Viscosity @ 40°C



Particle Count



Acid Number



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : USPM31970
Lab Number : 06028704
Unique Number : 10778495
Test Package : IND 2

Recieved : 07 Dec 2023
Diagnosed : 19 Dec 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: