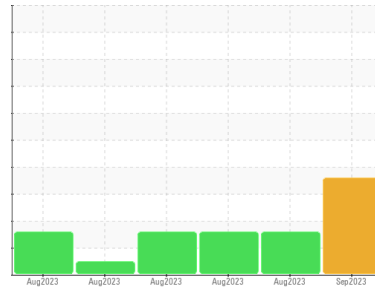




PROBLEM SUMMARY

Sample Rating Trend



WATER



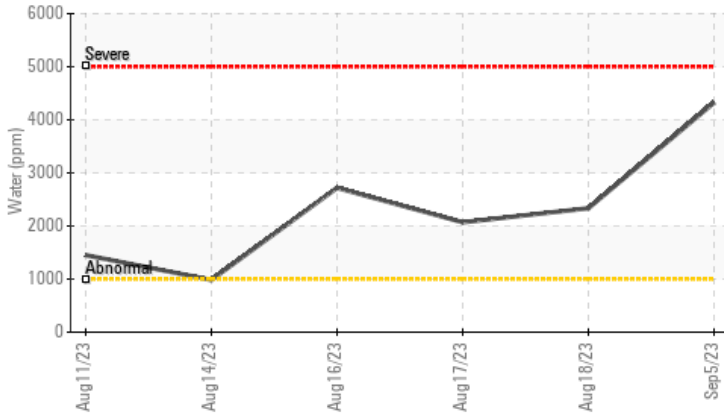
Machine Id
SL4-4 ASSET 8416 (S/N C0125000493)

Component
Vacuum Pump

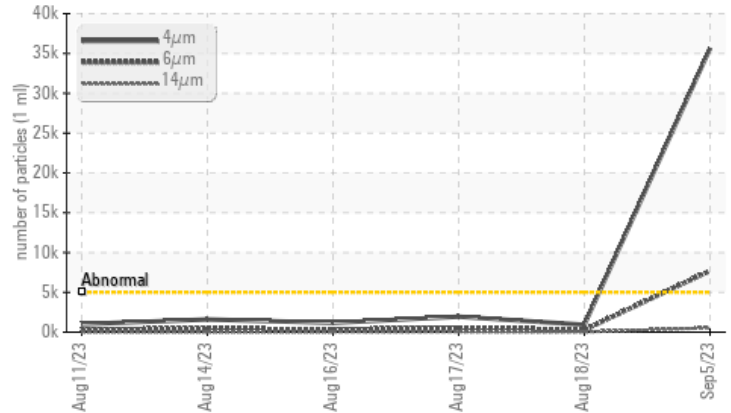
Fluid
USPI 1580-150 (11 GAL)

COMPONENT CONDITION SUMMARY

▲ Water (KF)



▲ Particle Trend



RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Water	%	ASTM D6304	>.1	▲ 0.432	▲ 0.233	▲ 0.206
ppm Water	ppm	ASTM D6304	>1000	▲ 4323.9	▲ 2334.0	▲ 2069.6
Particles >4µm		ASTM D7647	>5000	▲ 35639	930	1944
Particles >6µm		ASTM D7647	>1300	▲ 7710	280	547
Particles >14µm		ASTM D7647	>160	▲ 538	23	41
Particles >21µm		ASTM D7647	>40	▲ 154	6	11
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 22/20/16	17/15/12	18/16/13

Customer Id: CAMLES_USP
Sample No.: USPM27243
Lab Number: 05961264
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	MISSED	Sep 27 2023	?	We recommend you service the filters on this component.

HISTORICAL DIAGNOSIS

18 Aug 2023 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. All 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. pH measured at 7.0.

[view report](#)



17 Aug 2023 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. All 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](#)



16 Aug 2023 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. All 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.

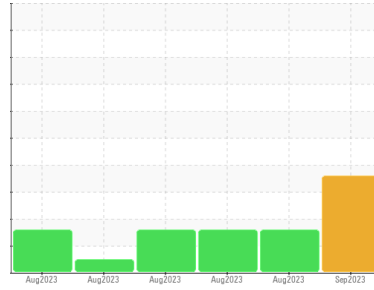
[view report](#)





OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Machine Id
SL4-4 ASSET 8416 (S/N C0125000493)

Component
Vacuum Pump
Fluid
USPI 1580-150 (11 GAL)

DIAGNOSIS

▲ Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

▲ Contamination

There is a high amount of particulates present in the oil. There is a moderate concentration of water 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	USPM27243	USPM27244	USPM273239
Sample Date	Client Info	05 Sep 2023	18 Aug 2023	17 Aug 2023
Machine Age	hrs	728	0	0
Oil Age	hrs	0	106	83
Oil Changed	Client Info	Not Chngd	Not Chngd	Not Chngd
Sample Status		ABNORMAL	ABNORMAL	ABNORMAL

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >20	0	2	2
Chromium	ppm	ASTM D5185m >20	0	0	<1
Nickel	ppm	ASTM D5185m >20	0	0	0
Titanium	ppm	ASTM D5185m	0	0	0
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	<1	<1	<1
Tin	ppm	ASTM D5185m >20	<1	<1	<1
Vanadium	ppm	ASTM D5185m	<1	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	1	0	0
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0
Manganese	ppm	ASTM D5185m	<1	<1	<1
Magnesium	ppm	ASTM D5185m	5	<1	<1
Calcium	ppm	ASTM D5185m	1	<1	<1
Phosphorus	ppm	ASTM D5185m	1645	1757	1759
Zinc	ppm	ASTM D5185m	0	17	16
Sulfur	ppm	ASTM D5185m	1300	1380	1401

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >15	2	23	21
Sodium	ppm	ASTM D5185m	2	2	2
Potassium	ppm	ASTM D5185m >20	4	2	2
Water	%	ASTM D6304 >.1	▲ 0.432	▲ 0.233	▲ 0.206
ppm Water	ppm	ASTM D6304 >1000	▲ 4323.9	▲ 2334.0	▲ 2069.6

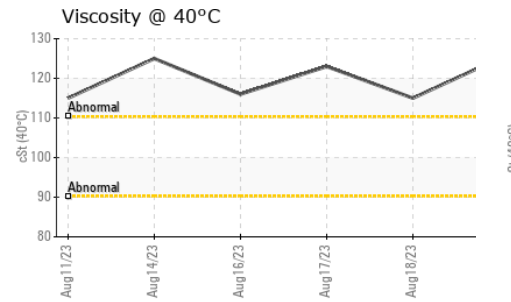
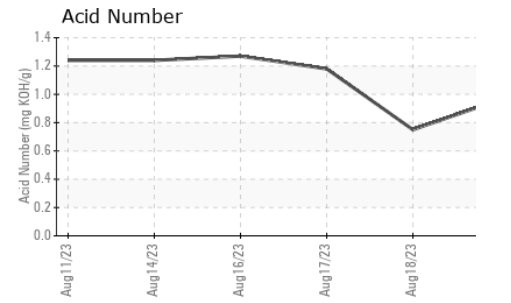
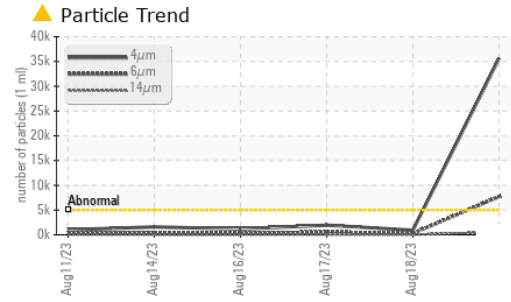
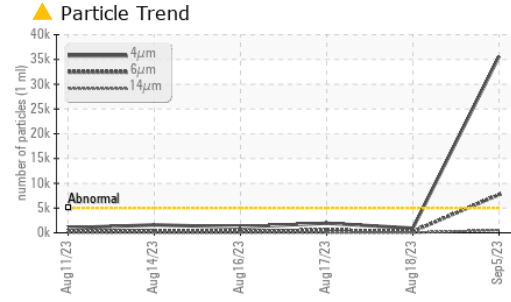
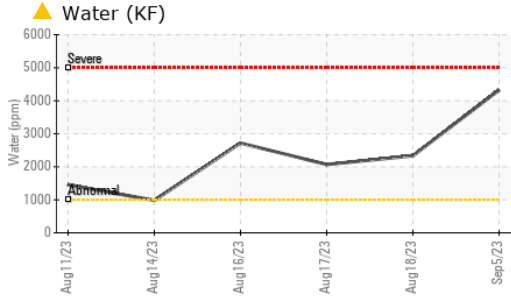
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	▲ 35639	930	1944
Particles >6µm	ASTM D7647 >1300	▲ 7710	280	547
Particles >14µm	ASTM D7647 >160	▲ 538	23	41
Particles >21µm	ASTM D7647 >40	▲ 154	6	11
Particles >38µm	ASTM D7647 >10	10	0	1
Particles >71µm	ASTM D7647 >3	2	0	0
Oil Cleanliness	ISO 4406 (c) >19/17/14	▲ 22/20/16	17/15/12	18/16/13

FLUID DEGRADATION

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045	0.96	0.75	1.18

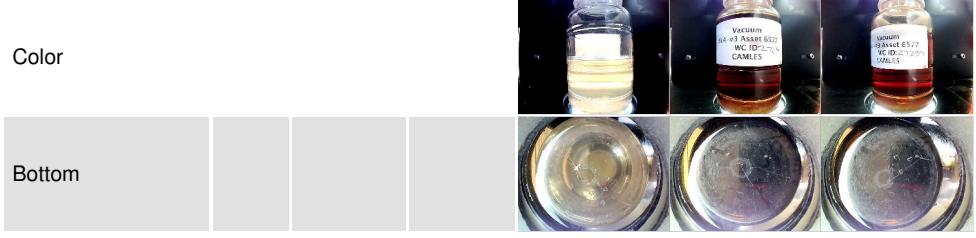
OIL ANALYSIS REPORT



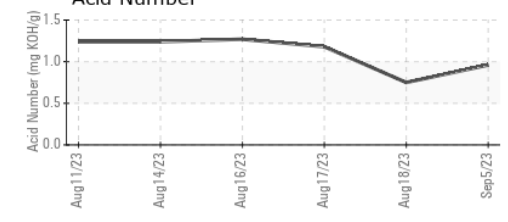
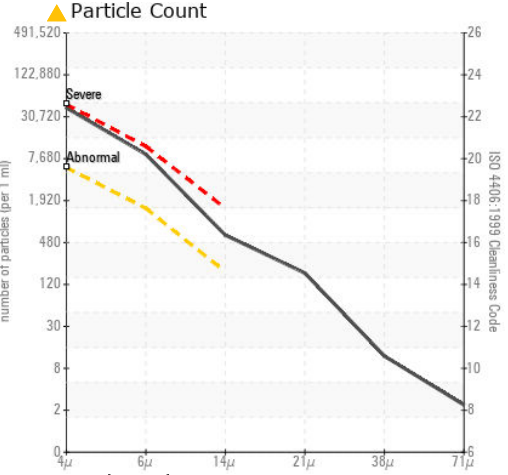
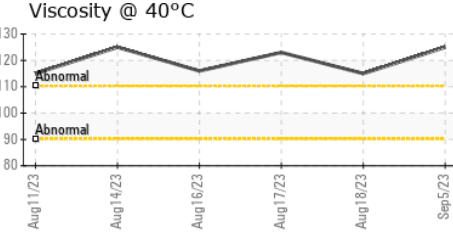
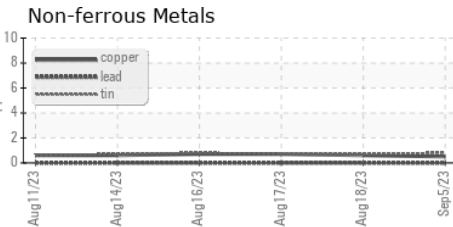
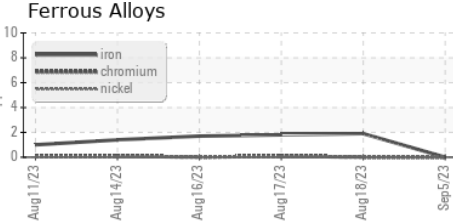
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	125	115	123

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : USPM27243 **Received** : 26 Sep 2023
Lab Number : 05961264 **Diagnosed** : 27 Sep 2023
Unique Number : 10662477 **Diagnostician** : Doug Bogart
Test Package : IND 2

CAMBRIA
 31496 CAMBRIA AVE
 LE SUEUR, MN
 US 56058
 Contact: Service Manager

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)

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F: