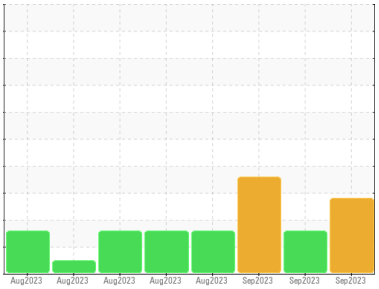
PROBLEM SUMMARY

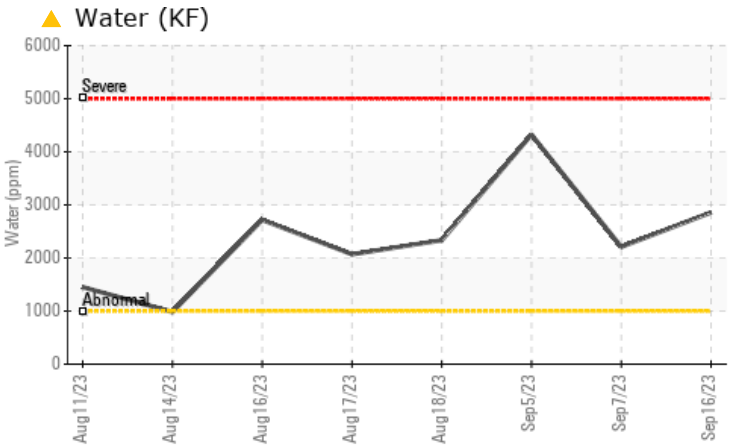
Sample Rating Trend

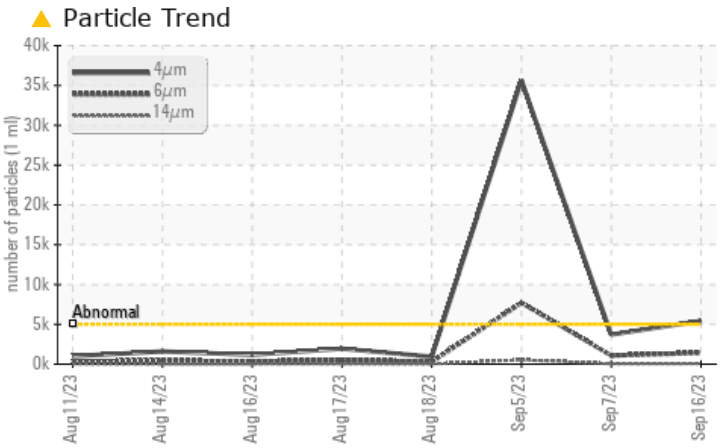


WATER

Machine Id
SL4-4 ASSET 8416 (S/N C0125000493)
Component
Vacuum Pump
Fluid
USPI 1580-150 (11 GAL)

COMPONENT CONDITION SUMMARY





RECOMMENDATION

Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL
Water	%	ASTM D6304	>.1	▲ **0.285**	▲ 0.220	▲ 0.432
ppm Water	ppm	ASTM D6304	>1000	▲ **2858.3**	▲ 2209.4	▲ 4323.9
Particles >4µm		ASTM D7647	>5000	▲ **5435**	3712	▲ 35639
Particles >6µm		ASTM D7647	>1300	▲ **1426**	1084	▲ 7710
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ **20/18/13**	19/17/12	▲ 22/20/16

Customer Id: CAMLES_USP
Sample No.: USPM27240
Lab Number: 05961263
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

07 Sep 2023 Diag: Doug Bogart

WATER

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

05 Sep 2023 Diag: Doug Bogart

WATER

We recommend you service the filters on this component. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of particulates 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

18 Aug 2023 Diag: Doug Bogart

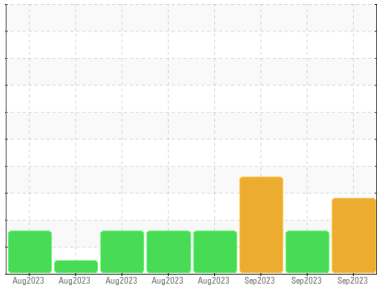
WATER

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

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
Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

Contamination
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. There is a light 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		**USPM27240**	USPM27242	USPM27243
Sample Date		Client Info		**16 Sep 2023**	07 Sep 2023	05 Sep 2023
Machine Age	hrs	Client Info		**744**	767	728
Oil Age	hrs	Client Info		**16**	39	0
Oil Changed		Client Info		**Not Changd**	Not Changd	Not Changd
Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	**3**	4	0
Chromium	ppm	ASTM D5185m	>20	**0**	0	0
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**	<1	<1
Cadmium	ppm	ASTM D5185m		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**<1**	0	1
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		**1**	1	5
Calcium	ppm	ASTM D5185m		**<1**	0	1
Phosphorus	ppm	ASTM D5185m		**1593**	1716	1645
Zinc	ppm	ASTM D5185m		**<1**	1	0
Sulfur	ppm	ASTM D5185m		**1335**	1352	1300

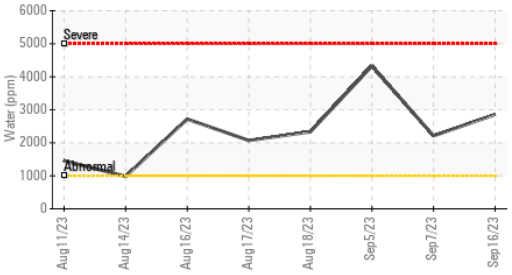
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	**16**	27	2
Sodium	ppm	ASTM D5185m		**2**	2	2
Potassium	ppm	ASTM D5185m	>20	**3**	4	4
Water	%	ASTM D6304	>.1	▲ **0.285**	▲ 0.220	▲ 0.432
ppm Water	ppm	ASTM D6304	>1000	▲ **2858.3**	▲ 2209.4	▲ 4323.9

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	▲ **5435**	3712	▲ 35639
Particles >6µm		ASTM D7647	>1300	▲ **1426**	1084	▲ 7710
Particles >14µm		ASTM D7647	>160	**62**	40	▲ 538
Particles >21µm		ASTM D7647	>40	**15**	10	▲ 154
Particles >38µm		ASTM D7647	>10	**2**	1	10
Particles >71µm		ASTM D7647	>3	**0**	0	2
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ **20/18/13**	19/17/12	▲ 22/20/16

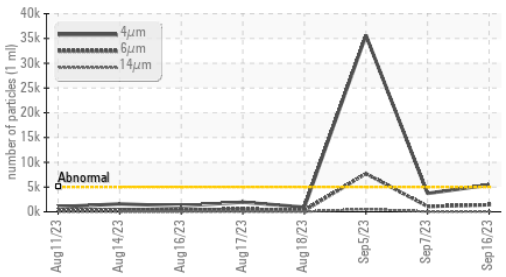
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.758**	0.756	0.96

OIL ANALYSIS REPORT

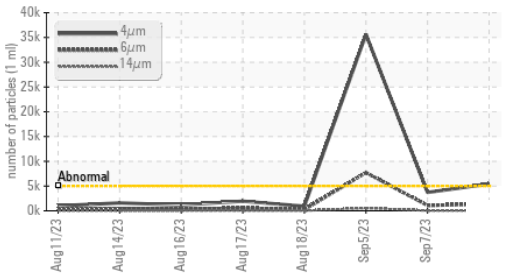
Water (KF)



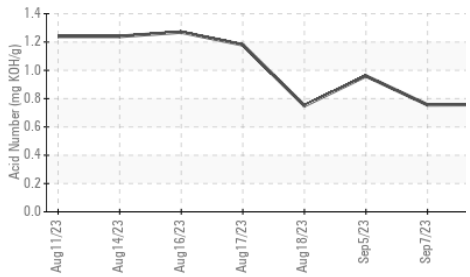
Particle Trend



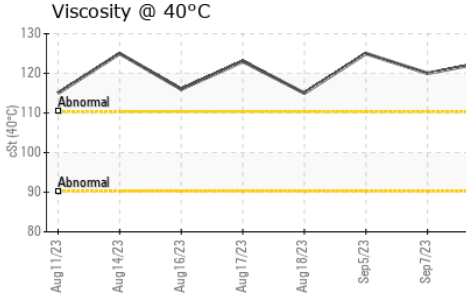
Particle Trend



Acid Number



Viscosity @ 40°C



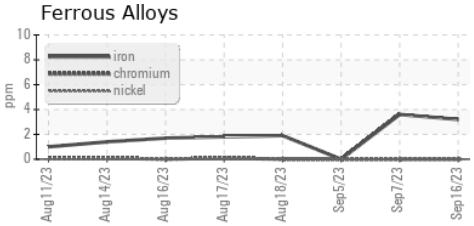
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**NORML**	NORML	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>.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		**123**	120	125

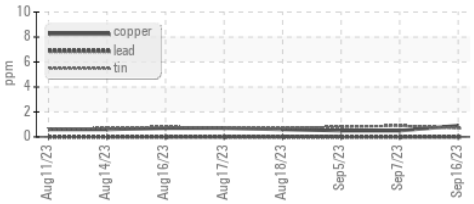
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

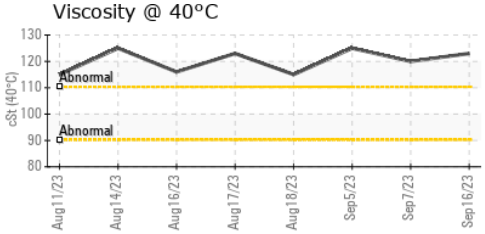
Ferrous Alloys



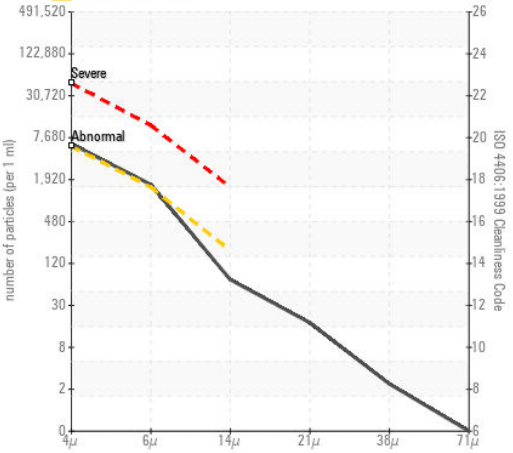
Non-ferrous Metals



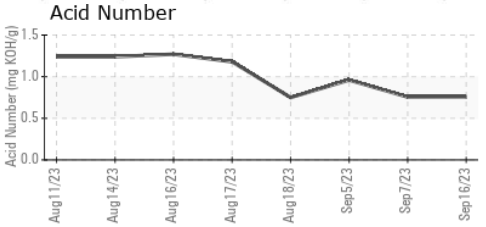
Viscosity @ 40°C



Particle Count



Acid Number



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : USPM27240
Lab Number : 05961263
Unique Number : 10662476
Test Package : IND 2

Received : 26 Sep 2023
Diagnosed : 27 Sep 2023
Diagnostician : Doug Bogart

Certificate L2367

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)

CAMBRIA
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LE SUEUR, MN
US 56058
Contact: Service Manager

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