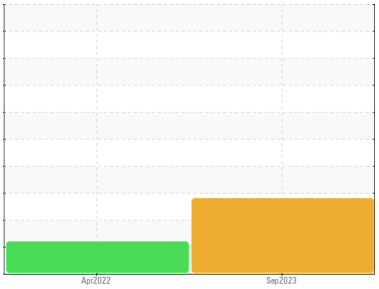
PROBLEM SUMMARY

Sample Rating Trend

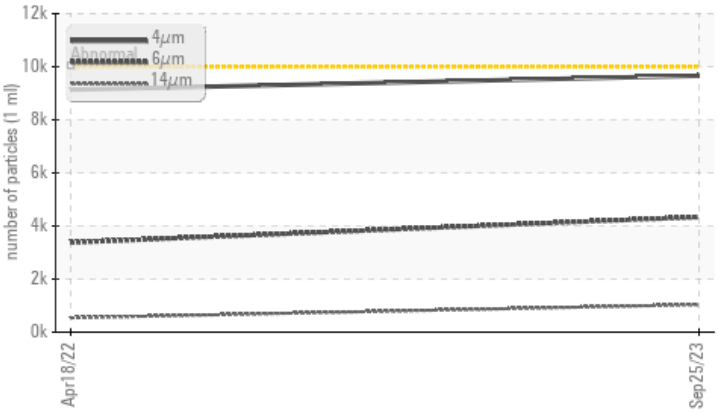


DEGRADATION

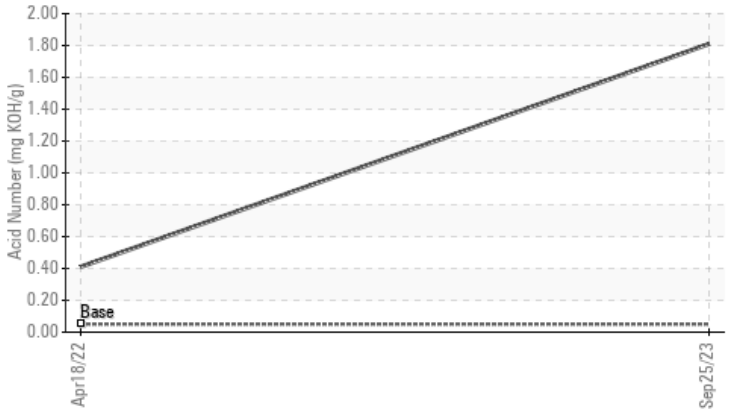
Machine Id
1300 (S/N AII385392)
Component
Air Compressor
Fluid
USPI AIR 46 (--- GAL)

COMPONENT CONDITION SUMMARY

Particle Trend



Acid Number



RECOMMENDATION

The oil is near the end of it`s useful service life, recommend schedule an oil change. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

				ABNORMAL	ATTENTION	---
Sample Status						
Particles >6µm		ASTM D7647	>2500	▲ **4337**	▲ 3379	---
Particles >14µm		ASTM D7647	>320	▲ **1036**	▲ 539	---
Particles >21µm		ASTM D7647	>80	▲ **264**	▲ 94	---
Oil Cleanliness		ISO 4406 (c)	>20/18/15	▲ **20/19/17**	▲ 20/19/16	---
Acid Number (AN)	mg KOH/g	ASTM D8045	0.05	▲ **1.81**	0.41	---

Customer Id: CARMILWI
Sample No.: USPM29801
Lab Number: 05965411
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
Service/change Fluid	---	---	?	The oil is near the end of it's useful service life, recommend schedule an oil change.

HISTORICAL DIAGNOSIS

18 Apr 2022 Diag: Doug Bogart

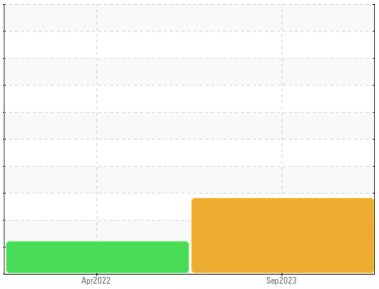
ISO

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.All component wear rates are normal. There is a moderate amount of particulates present in the oil. 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



DEGRADATION

Machine Id
1300 (S/N AII385392)
Component
Air Compressor
Fluid
USPI AIR 46 (--- GAL)

DIAGNOSIS

Recommendation
The oil is near the end of it`s useful service life, recommend schedule an oil change. 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.

Fluid Condition
The AN level is at the top-end of the recommended limit. Confirmed.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**USPM29801**	USP212662	---
Sample Date		Client Info		**25 Sep 2023**	18 Apr 2022	---
Machine Age	hrs	Client Info		**23808**	0	---
Oil Age	hrs	Client Info		**0**	0	---
Oil Changed		Client Info		**N/A**	N/A	---
Sample Status				**ABNORMAL**	ATTENTION	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>70	**1**	<1	---
Chromium	ppm	ASTM D5185m	>15	**0**	0	---
Nickel	ppm	ASTM D5185m	>6	**0**	0	---
Titanium	ppm	ASTM D5185m		**0**	0	---
Silver	ppm	ASTM D5185m		**0**	<1	---
Aluminum	ppm	ASTM D5185m	>10	**0**	0	---
Lead	ppm	ASTM D5185m	>20	**0**	0	---
Copper	ppm	ASTM D5185m	>80	**2**	<1	---
Tin	ppm	ASTM D5185m	>15	**0**	0	---
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	**<1**	0	---
Manganese	ppm	ASTM D5185m		**0**	0	---
Magnesium	ppm	ASTM D5185m	0	**0**	0	---
Calcium	ppm	ASTM D5185m	0	**8**	<1	---
Phosphorus	ppm	ASTM D5185m	1	**14**	54	---
Zinc	ppm	ASTM D5185m	0	**25**	2	---
Sulfur	ppm	ASTM D5185m	0	**40**	12	---

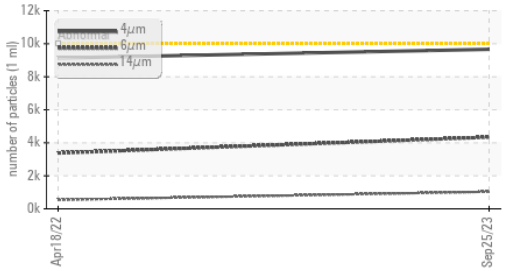
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>12	**<1**	3	---
Sodium	ppm	ASTM D5185m		**<1**	0	---
Potassium	ppm	ASTM D5185m	>20	**0**	0	---
Water	%	ASTM D6304	>0.2	**0.031**	0.003	---
ppm Water	ppm	ASTM D6304	>2000	**310.5**	30.5	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	**9661**	9135	---
Particles >6µm		ASTM D7647	>2500	▲ **4337**	▲ 3379	---
Particles >14µm		ASTM D7647	>320	▲ **1036**	▲ 539	---
Particles >21µm		ASTM D7647	>80	▲ **264**	▲ 94	---
Particles >38µm		ASTM D7647	>20	**8**	2	---
Particles >71µm		ASTM D7647	>4	**1**	0	---
Oil Cleanliness		ISO 4406 (c)	>20/18/15	▲ **20/19/17**	▲ 20/19/16	---

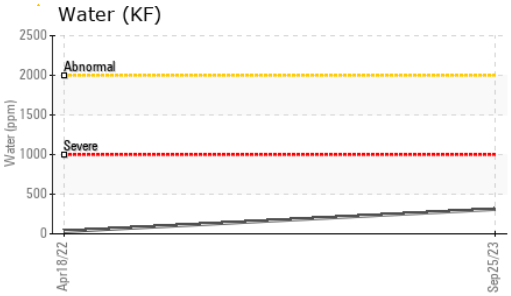
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.05	▲ **1.81**	0.41	---

OIL ANALYSIS REPORT

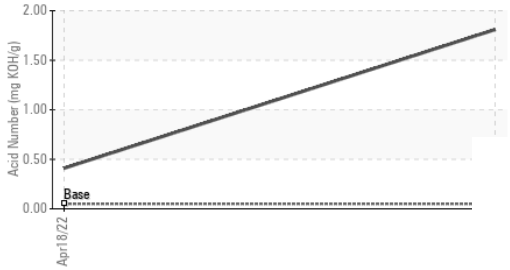
Particle Trend



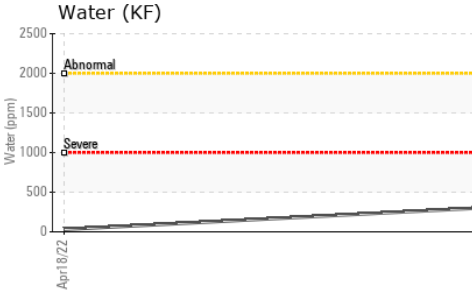
Water (KF)



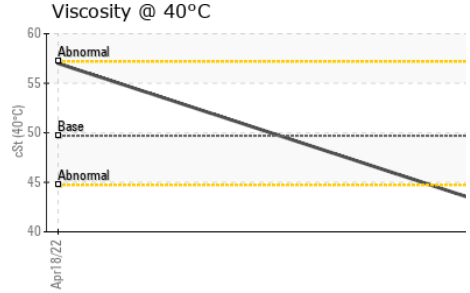
Acid Number



Water (KF)

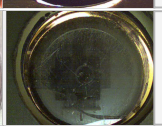


Viscosity @ 40°C



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**	NORML	---
Odor	scalar	*Visual	NORML	**NORML**	NORML	---
Emulsified Water	scalar	*Visual	>0.2	**NEG**	NEG	---
Free Water	scalar	*Visual		**NEG**	NEG	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	49.7	**42.8**	57.0	---

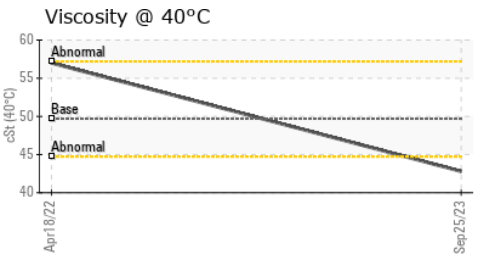
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					*no image*
Bottom					*no image*

GRAPHS

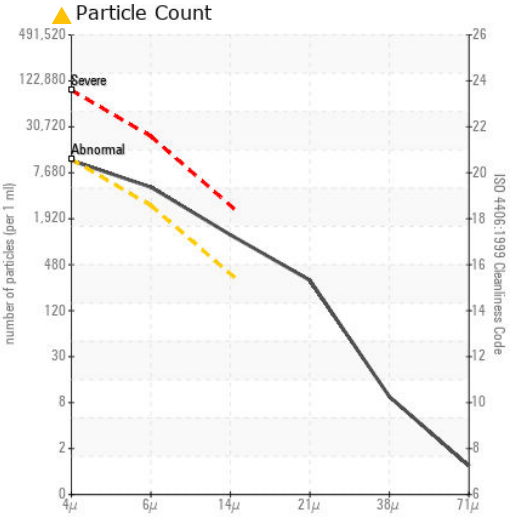
Ferrous Alloys

Non-ferrous Metals

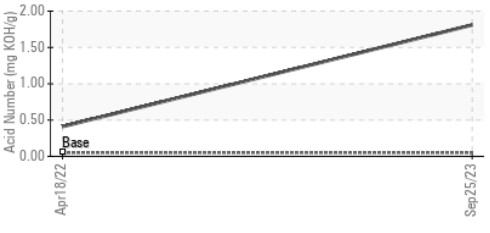
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : USPM29801
Lab Number : 05965411
Unique Number : 10671962
Test Package : IND 2

Received : 29 Sep 2023
Diagnosed : 03 Oct 2023
Diagnostician : Doug Bogart

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)

CARGILL FEED & NUTRITION - MILTON
1425 E HIGH ST
MILTON, WI
US 53563
Contact: Sean Bertrand
sean_bertrand@cargill.com
T:
F: