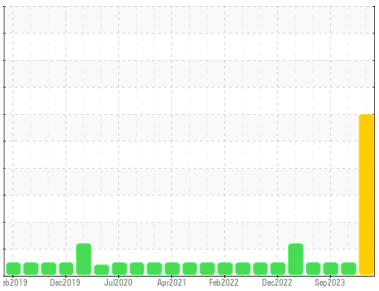
PROBLEM SUMMARY

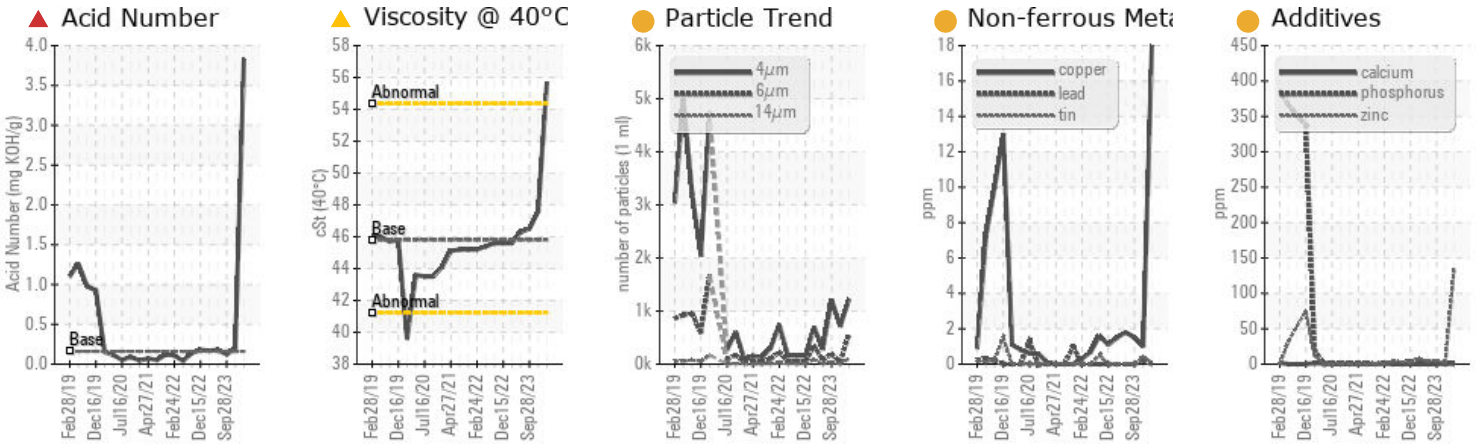
Sample Rating Trend



DEGRADATION

Machine Id
AIR 4 (S/N 1530 - 101265.1)
Component
Air Compressor
Fluid
USPI MAX FG AIR 46 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

Recommend drain oil if not already done and flush with cleaner before refilling with oil. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				**SEVERE**	NORMAL	NORMAL
Acid Number (AN)	mg KOH/g	ASTM D8045	0.16	▲ **3.83**	0.20	0.12
Visc @ 40°C	cSt	ASTM D445	45.8	▲ **55.7**	47.6	46.5

Customer Id: AMEGREEAS
Sample No.: USPM37591
Lab Number: 06204676
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 Fluid	---	---	?	Recommend drain oil if not already done and flush with cleaner before refilling with oil.
Flush System	---	---	?	Recommend drain oil if not already done and flush with cleaner before refilling with oil.
Resample	---	---	?	We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS

NORMAL

06 Feb 2024 Diag: Doug Bogart
Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination 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

NORMAL

28 Sep 2023 Diag: Doug Bogart
Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination 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

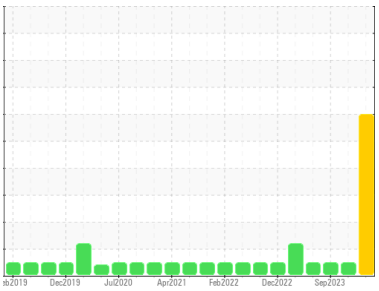
NORMAL

21 Jun 2023 Diag: Doug Bogart
Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination 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



DEGRADATION

Machine Id
AIR 4 (S/N 1530 - 101265.1)
Component
Air Compressor
Fluid
USPI MAX FG AIR 46 (--- GAL)

DIAGNOSIS

▲ Recommendation
Recommend drain oil if not already done and flush with cleaner before refilling with oil. We recommend an early resample to monitor this condition.

● Wear
Bearing and/or bushing wear is indicated.

● Contamination
There is a moderate amount of particulates present in the oil.

▲ Fluid Condition
The AN level is above the recommended limit. The oil viscosity is higher than normal. Confirmed.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**USPM37591**	USPM30064	USPM29788
Sample Date		Client Info		**31 May 2024**	06 Feb 2024	28 Sep 2023
Machine Age	hrs	Client Info		**23689**	21940	19418
Oil Age	hrs	Client Info		**0**	12184	9662
Oil Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**SEVERE**	NORMAL	NORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	**0**	0	<1
Chromium	ppm	ASTM D5185m	>4	**0**	0	0
Nickel	ppm	ASTM D5185m	>4	**0**	<1	0
Titanium	ppm	ASTM D5185m	>3	**0**	0	0
Silver	ppm	ASTM D5185m	>2	**0**	0	0
Aluminum	ppm	ASTM D5185m	>10	**0**	<1	0
Lead	ppm	ASTM D5185m	>20	**0**	<1	0
Copper	ppm	ASTM D5185m	>40	● **18**	1	2
Tin	ppm	ASTM D5185m	>5	**<1**	<1	0
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	**0**	0	0
Barium	ppm	ASTM D5185m	0	**0**	0	0
Molybdenum	ppm	ASTM D5185m	0	**0**	0	0
Manganese	ppm	ASTM D5185m		**<1**	0	0
Magnesium	ppm	ASTM D5185m	0	**<1**	1	0
Calcium	ppm	ASTM D5185m	0	**<1**	1	0
Phosphorus	ppm	ASTM D5185m	0	**2**	0	1
Zinc	ppm	ASTM D5185m	0	● **132**	2	4
Sulfur	ppm	ASTM D5185m	0	**15**	16	3

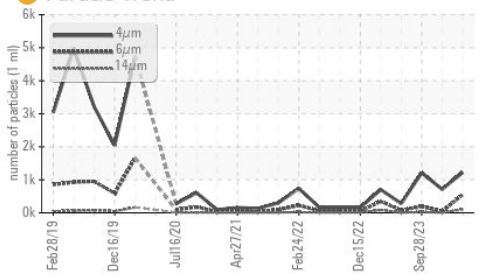
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	**0**	0	<1
Sodium	ppm	ASTM D5185m		**5**	<1	0
Potassium	ppm	ASTM D5185m	>20	**4**	2	<1
Water	%	ASTM D6304	>0.6	**0.023**	0.004	0.022
ppm Water	ppm	ASTM D6304	>6000	**240**	42	227.4

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		**1222**	713	1211
Particles >6µm		ASTM D7647	>1300	**554**	39	195
Particles >14µm		ASTM D7647	>80	● **103**	6	23
Particles >21µm		ASTM D7647	>20	● **31**	4	7
Particles >38µm		ASTM D7647	>4	**1**	1	1
Particles >71µm		ASTM D7647	>3	**0**	0	0
Oil Cleanliness		ISO 4406 (c)	>--/17/13	● **17/16/14**	17/12/10	17/15/12

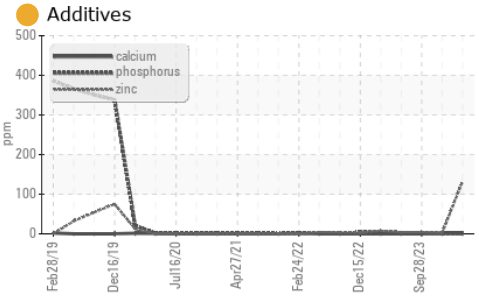
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.16	▲ **3.83**	0.20	0.12

OIL ANALYSIS REPORT

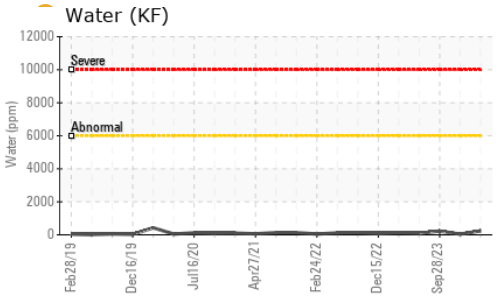
Particle Trend



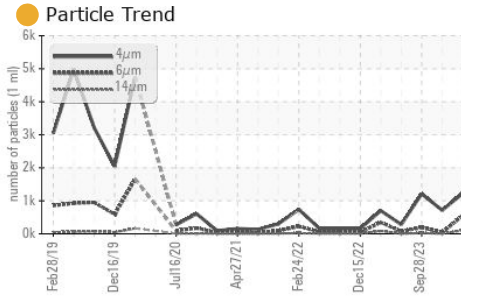
Additives



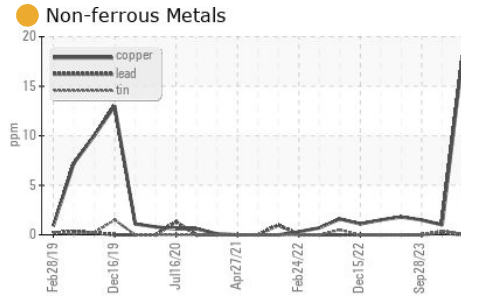
Water (KF)



Particle Trend



Non-ferrous Metals



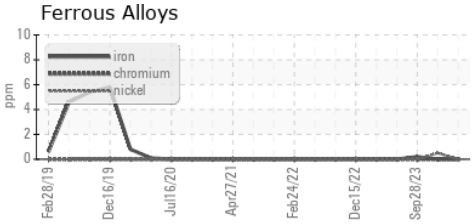
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**NORML**	NORML	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.6	**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45.8	▲ **55.7**	47.6	46.5

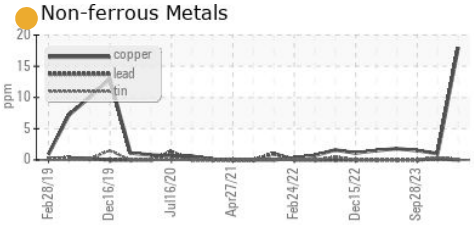
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

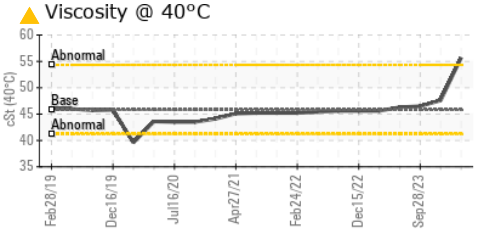
Ferrous Alloys



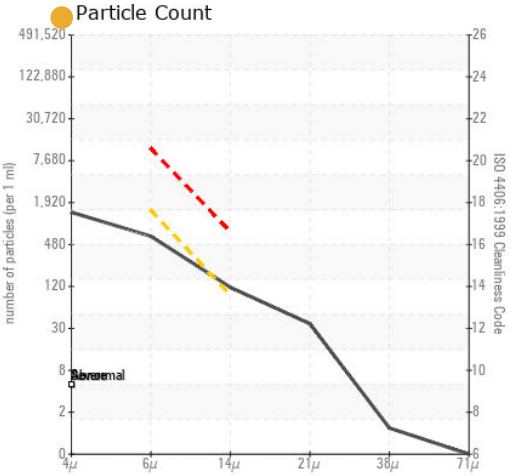
Non-ferrous Metals



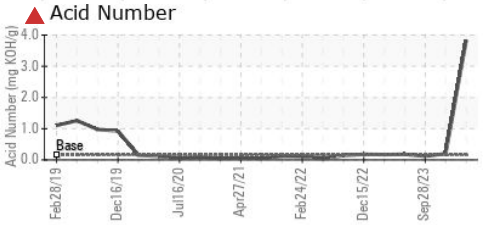
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : USPM37591
Lab Number : 06204676
Unique Number : 11072137
Test Package : IND 2

Received : 10 Jun 2024
Tested : 12 Jun 2024
Diagnosed : 12 Jun 2024 - Doug Bogart

AMERICAN FOODS GROUP - EAST RIVER
800 UNIVERSITY AVE
GREEN BAY, WI
US 54302
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)

T:
F: