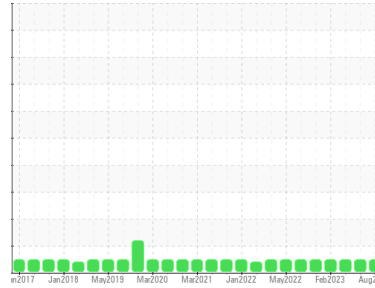




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**GARDNER DENVER AIR 1 GD (S/N M48559)**

Component  
**Air Compressor**

Fluid  
**USPI AIR 46 (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

### 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	<b>USPM29198</b>	USPM28031	USPM24109
Sample Date	Client Info	<b>15 Aug 2023</b>	14 May 2023	20 Apr 2023
Machine Age	hrs	Client Info	<b>0</b>	0
Oil Age	hrs	Client Info	<b>0</b>	0
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL

## WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>50	<b>0</b>	0
Chromium	ppm	ASTM D5185m	>4	<b>0</b>	0
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	0
Silver	ppm	ASTM D5185m		<b>0</b>	0
Aluminum	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1
Lead	ppm	ASTM D5185m	>20	<b>0</b>	0
Copper	ppm	ASTM D5185m	>40	<b>2</b>	0
Tin	ppm	ASTM D5185m	>5	<b>0</b>	1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0

## ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	<b>0</b>	0
Barium	ppm	ASTM D5185m	0	<b>0</b>	0
Molybdenum	ppm	ASTM D5185m	0	<b>0</b>	0
Manganese	ppm	ASTM D5185m		<b>0</b>	<1
Magnesium	ppm	ASTM D5185m	0	<b>0</b>	0
Calcium	ppm	ASTM D5185m	0	<b>0</b>	<1
Phosphorus	ppm	ASTM D5185m	1	<b>6</b>	5
Zinc	ppm	ASTM D5185m	0	<b>63</b>	17
Sulfur	ppm	ASTM D5185m	0	<b>0</b>	0

## CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	<b>&lt;1</b>	<1
Sodium	ppm	ASTM D5185m		<b>0</b>	0
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	2
Water	%	ASTM D6304	>0.2	<b>0.094</b>	0.048
ppm Water	ppm	ASTM D6304	>2000	<b>949.6</b>	482.6

## FLUID CLEANLINESS

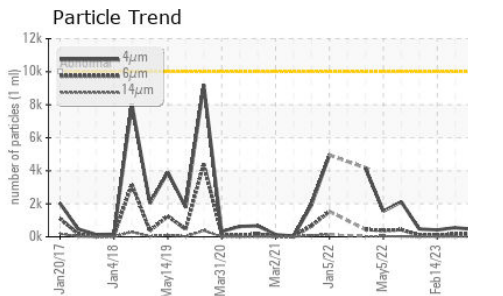
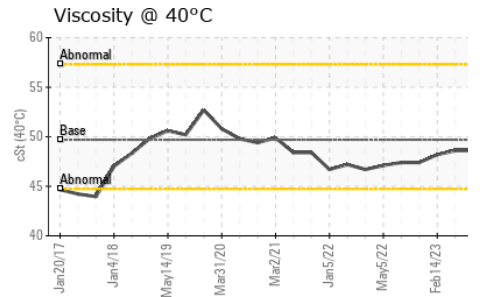
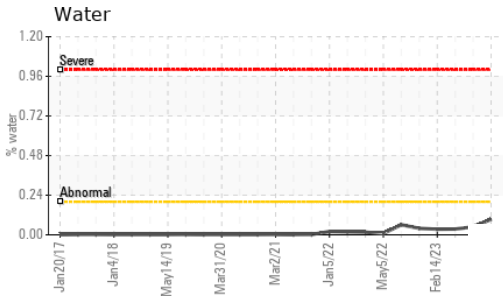
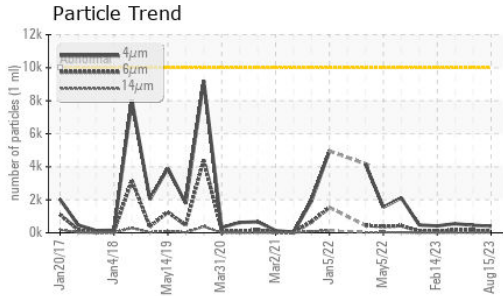
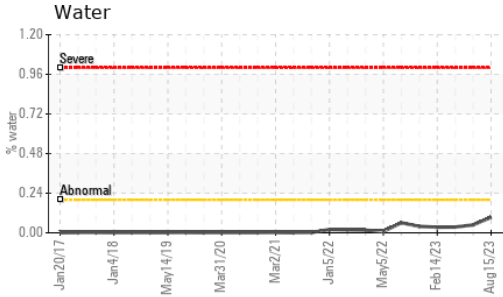
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	<b>396</b>	455
Particles >6µm	ASTM D7647	>2500	<b>99</b>	148
Particles >14µm	ASTM D7647	>320	<b>13</b>	10
Particles >21µm	ASTM D7647	>80	<b>5</b>	3
Particles >38µm	ASTM D7647	>20	<b>0</b>	0
Particles >71µm	ASTM D7647	>4	<b>0</b>	0
Oil Cleanliness	ISO 4406 (c)	>20/18/15	<b>16/14/11</b>	16/14/10

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.05	<b>0.35</b>



# OIL ANALYSIS REPORT



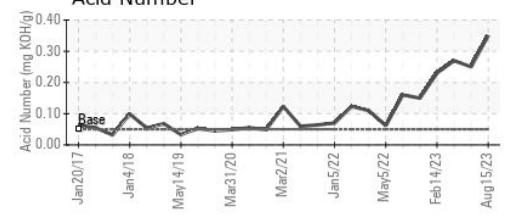
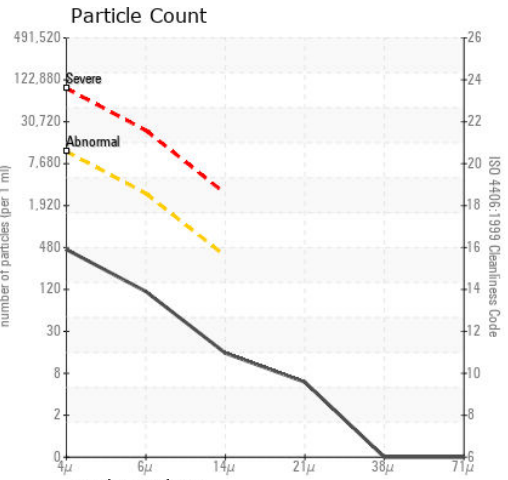
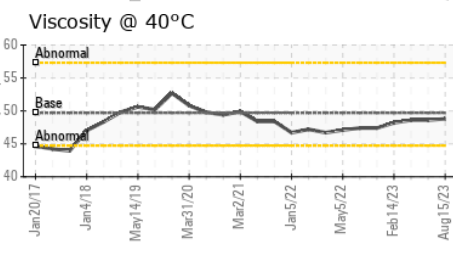
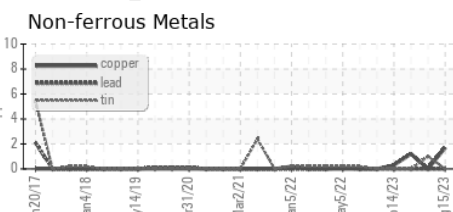
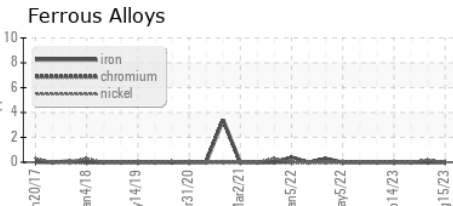
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>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	<b>48.8</b>	48.6	48.6

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : USPM29198 **Received** : 15 Aug 2023  
**Lab Number** : 05924874 **Diagnosed** : 16 Aug 2023  
**Unique Number** : 10604821 **Diagnostician** : Doug Bogart  
**Test Package** : IND 2

**JBS-OTTUMWA**  
 600 SOUTH IOWA AVENUE  
 OTTUMWA, IA  
 US 52501  
 Contact: LISA PIERCE  
 lisa\_pierce@cargill.com  
 T: (641)683-4741  
 F: (641)683-4731

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)