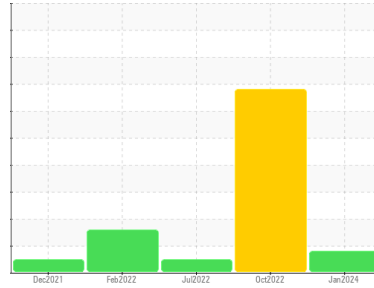




# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id  
**630 (S/N U78818)**

Component  
**Air Compressor**

Fluid  
**GARDNER DENVER AEON 4000 (--- 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 particulates 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	<b>USPM30616</b>	USPM17940	USPM17944	
Sample Date	Client Info	<b>10 Jan 2024</b>	12 Oct 2022	06 Jul 2022	
Machine Age	hrs	Client Info	<b>0</b>	0	6
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A	
Sample Status		<b>ATTENTION</b>	SEVERE	NORMAL	

## WEAR METALS

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

## ADDITIVES

method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185m		<b>0</b>	0	3
Barium	ppm	ASTM D5185m	20	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>0</b>	0	0
Manganese	ppm	ASTM D5185m		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185m		<b>0</b>	0	0
Calcium	ppm	ASTM D5185m	20	<b>&lt;1</b>	0	0
Phosphorus	ppm	ASTM D5185m	320	<b>19</b>	17	16
Zinc	ppm	ASTM D5185m	20	<b>0</b>	0	0
Sulfur	ppm	ASTM D5185m	1400	<b>14</b>	103	90

## CONTAMINANTS

method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>25	<b>1</b>	<1	<1
Sodium	ppm	ASTM D5185m		<b>3</b>	0	<1
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	0	0
Water	%	ASTM D6304	>0.6	<b>0.055</b>	▲ 0.167	0.084
ppm Water	ppm	ASTM D6304	>6000	<b>559</b>	▲ 1698	847.2

## FLUID CLEANLINESS

method	limit/base	current	history1	history2	
Particles >4µm	ASTM D7647	>10000	<b>5299</b>	---	3868
Particles >6µm	ASTM D7647	>2500	<b>2399</b>	---	1391
Particles >14µm	ASTM D7647	>320	▲ <b>377</b>	---	213
Particles >21µm	ASTM D7647	>80	<b>77</b>	---	61
Particles >38µm	ASTM D7647	>20	<b>2</b>	---	2
Particles >71µm	ASTM D7647	>4	<b>0</b>	---	0
Oil Cleanliness	ISO 4406 (c)	>20/18/15	▲ <b>20/18/16</b>	---	19/18/15

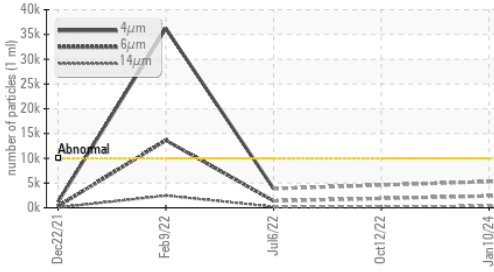
## FLUID DEGRADATION

method	limit/base	current	history1	history2		
Acid Number (AN)	mg KOH/g	ASTM D8045	0.06	<b>0.091</b>	0.18	0.072

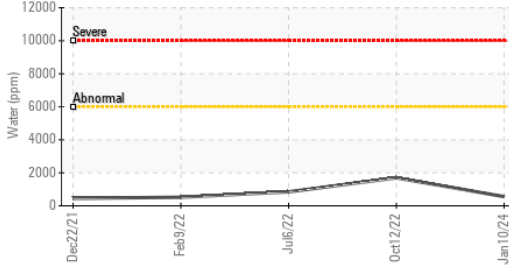


# OIL ANALYSIS REPORT

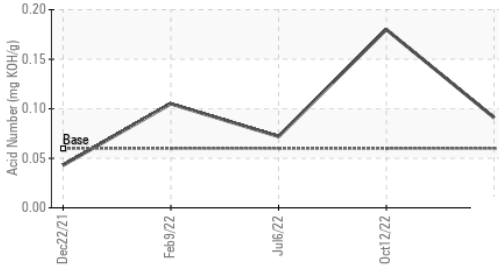
## Particle Trend



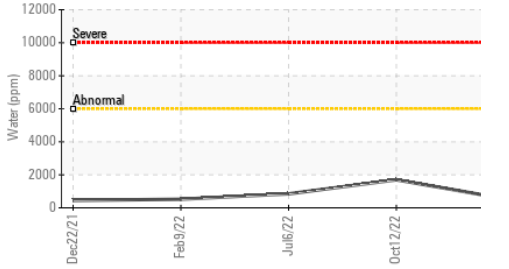
## Water (KF)



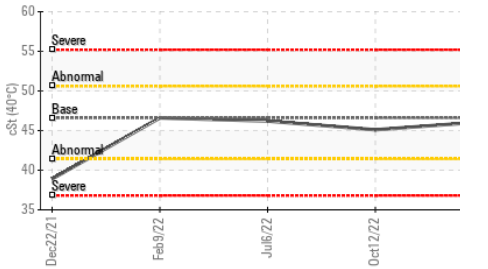
## Acid Number



## Water (KF)



## Viscosity @ 40°C



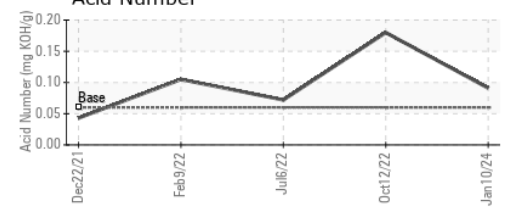
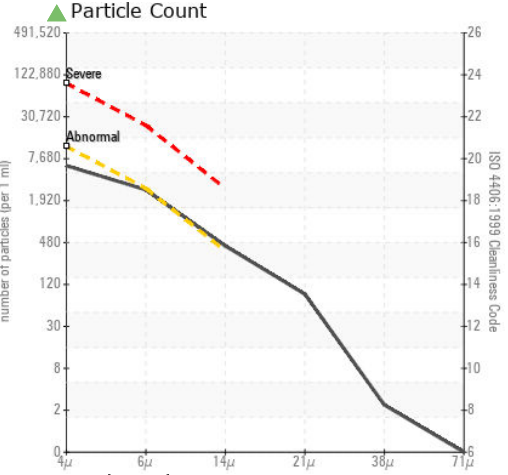
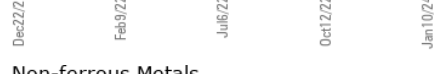
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	<b>LIGHT</b>	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.6	<b>NEG</b>	▲ 0.2%
Free Water	scalar	*Visual		<b>NEG</b>	● >10%

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46.6	<b>46.1</b>	45.1

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : USPM30616 **Received** : 16 Jan 2024  
**Lab Number** : 06061135 **Diagnosed** : 18 Jan 2024  
**Unique Number** : 10832517 **Diagnostician** : Doug Bogart  
**Test Package** : IND 2

**CARGILL ANIMAL NUTRITION - LIVERPOOL**  
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 LIVERPOOL, NY  
 US 13090  
 Contact: SEAN BERTRAND  
 sean\_bertrand@cargill.com  
 T:  
 F:

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)