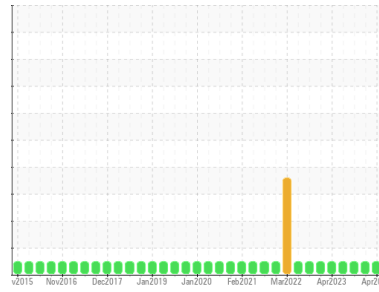




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**C-9101 AC 1 (S/N U101502562)**  
 Component  
**Air Compressor**  
 Fluid  
**USPI MAX FG 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 component. The amount and size of particulates present in the system is 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>USPM28667</b>	USPM28665	USPM28666
Sample Date	Client Info	<b>03 Apr 2024</b>	09 Jan 2024	18 Oct 2023
Machine Age	hrs Client Info	<b>0</b>	0	0
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>NORMAL</b>	NORMAL	NORMAL

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >70	<b>0</b>	0	0
Chromium	ppm ASTM D5185m >15	<b>0</b>	0	<1
Nickel	ppm ASTM D5185m >6	<b>0</b>	0	0
Titanium	ppm ASTM D5185m	<b>0</b>	0	<1
Silver	ppm ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm ASTM D5185m >10	<b>&lt;1</b>	0	<1
Lead	ppm ASTM D5185m >20	<b>0</b>	0	0
Copper	ppm ASTM D5185m >80	<b>0</b>	0	0
Tin	ppm ASTM D5185m >15	<b>&lt;1</b>	0	<1
Vanadium	ppm ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm ASTM D5185m	<b>0</b>	0	<1

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 0	<b>0</b>	0	0
Barium	ppm ASTM D5185m 0	<b>0</b>	0	0
Molybdenum	ppm ASTM D5185m 0	<b>0</b>	0	0
Manganese	ppm ASTM D5185m	<b>0</b>	0	<1
Magnesium	ppm ASTM D5185m 0	<b>0</b>	0	1
Calcium	ppm ASTM D5185m 0	<b>0</b>	0	0
Phosphorus	ppm ASTM D5185m 0	<b>0</b>	0	0
Zinc	ppm ASTM D5185m 0	<b>0</b>	0	0
Sulfur	ppm ASTM D5185m 0	<b>15</b>	10	6

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >12	<b>&lt;1</b>	0	3
Sodium	ppm ASTM D5185m	<b>&lt;1</b>	0	0
Potassium	ppm ASTM D5185m >20	<b>&lt;1</b>	0	4
Water	% ASTM D6304 >0.1	<b>0.006</b>	0.011	0.009
ppm Water	ppm ASTM D6304 >1000	<b>63</b>	118	90.1

## FLUID CLEANLINESS

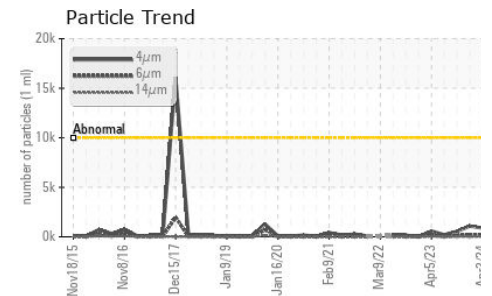
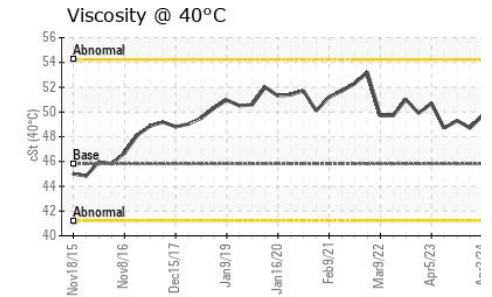
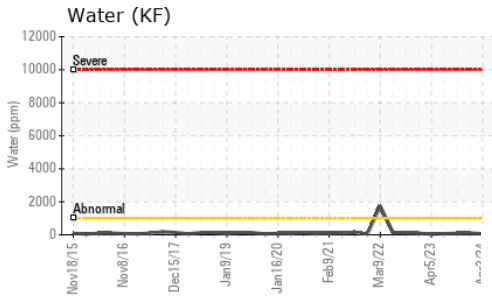
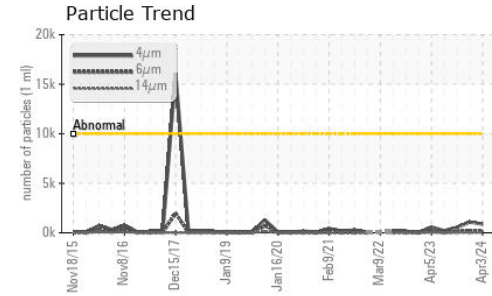
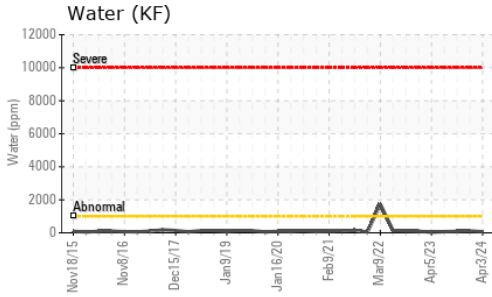
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >10000	<b>875</b>	1087	545
Particles >6µm	ASTM D7647 >2500	<b>180</b>	194	117
Particles >14µm	ASTM D7647 >320	<b>11</b>	13	21
Particles >21µm	ASTM D7647 >80	<b>4</b>	5	7
Particles >38µm	ASTM D7647 >20	<b>0</b>	0	1
Particles >71µm	ASTM D7647 >4	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c) >20/18/15	<b>17/15/11</b>	17/15/11	16/14/12

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D8045 0.16	<b>0.25</b>	0.07	0.12



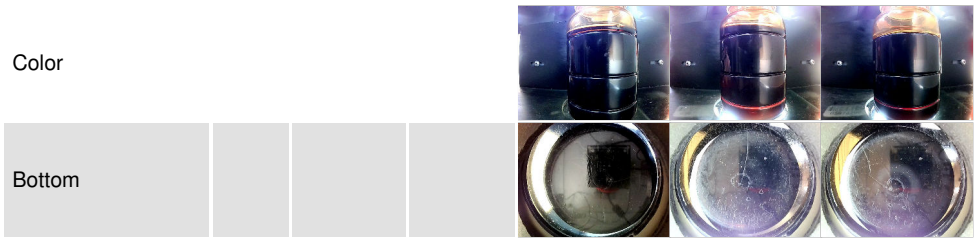
# OIL ANALYSIS REPORT



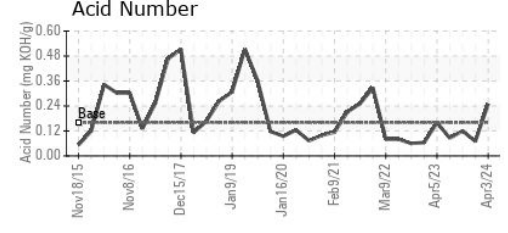
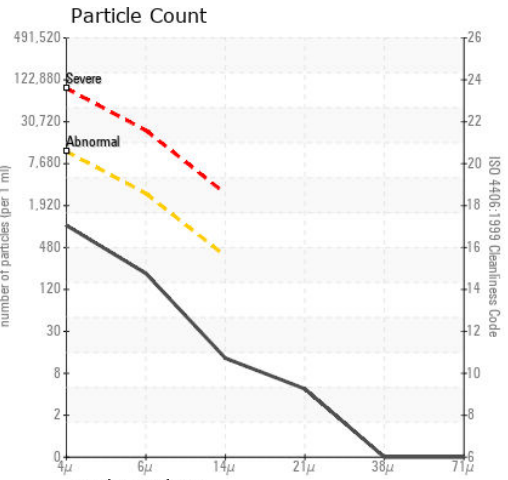
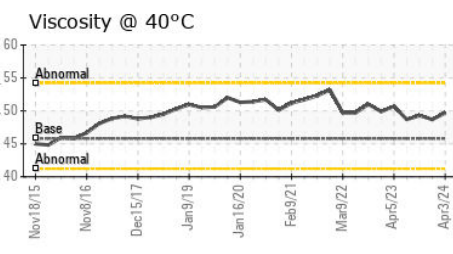
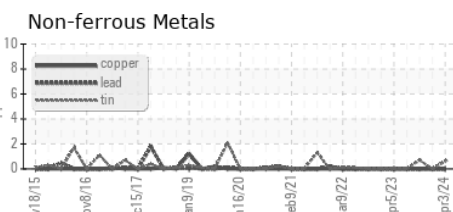
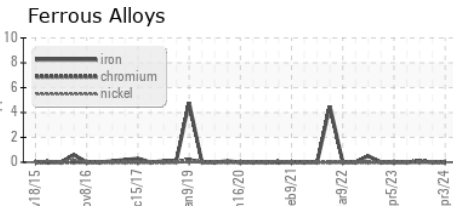
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	<b>LIGHT</b>	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	NONE
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	NEG
Free Water	scalar	*Visual		<b>NEG</b>	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45.8	<b>49.7</b>	48.7

SAMPLE IMAGES	method	limit/base	current	history1	history2
---------------	--------	------------	---------	----------	----------



## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : USPM28667  
**Lab Number** : 06140660  
**Unique Number** : 10965468  
**Test Package** : IND 2  
**Received** : 05 Apr 2024  
**Tested** : 08 Apr 2024  
**Diagnosed** : 08 Apr 2024 - Doug Bogart

**CARGILL OIL SEEDS**  
 5000 SOUTH BLVD  
 CHARLOTTE, NC  
 US 28217  
 Contact:

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)