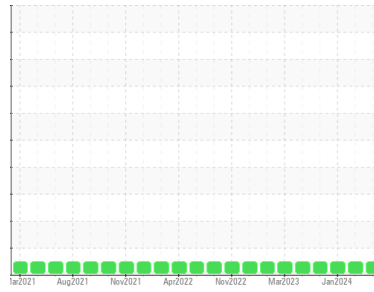




# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Area

**Pillen Family Farms**

Machine Id  
**MILTK42**

Component  
**Diesel Engine**

Fluid  
**MOBIL DELVAC 1300 SUPER15W40 (--- 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.

#### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

### SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>SBP0006886</b>	SBP0006838	SBP0006169
Sample Date	Client Info	<b>30 Apr 2024</b>	26 Feb 2024	12 Jan 2024
Machine Age	hrs Client Info	<b>350</b>	350	350
Oil Age	hrs Client Info	<b>0</b>	0	350
Oil Changed	Client Info	<b>Not Changed</b>	Not Changed	Not Changed
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL

### CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >5	<b>&lt;1.0</b>	<1.0	<1.0
Water	WC Method >0.2	<b>NEG</b>	NEG	NEG
Glycol	WC Method	<b>NEG</b>	NEG	NEG

### WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >100	<b>11</b>	9	6
Chromium	ppm ASTM D5185m >20	<b>0</b>	<1	<1
Nickel	ppm ASTM D5185m >4	<b>0</b>	0	0
Titanium	ppm ASTM D5185m	<b>0</b>	0	<1
Silver	ppm ASTM D5185m >3	<b>0</b>	0	0
Aluminum	ppm ASTM D5185m >20	<b>&lt;1</b>	2	2
Lead	ppm ASTM D5185m >40	<b>&lt;1</b>	<1	2
Copper	ppm ASTM D5185m >330	<b>0</b>	<1	<1
Tin	ppm ASTM D5185m >15	<b>0</b>	0	<1
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 0	<b>5</b>	2	0
Barium	ppm ASTM D5185m 0	<b>0</b>	0	0
Molybdenum	ppm ASTM D5185m 0	<b>55</b>	55	61
Manganese	ppm ASTM D5185m	<b>0</b>	0	<1
Magnesium	ppm ASTM D5185m 0	<b>940</b>	963	918
Calcium	ppm ASTM D5185m	<b>1099</b>	1109	979
Phosphorus	ppm ASTM D5185m	<b>1001</b>	1067	985
Zinc	ppm ASTM D5185m	<b>1268</b>	1242	1173
Sulfur	ppm ASTM D5185m	<b>3643</b>	3301	2811

### CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	<b>4</b>	3	4
Sodium	ppm ASTM D5185m	<b>2</b>	2	3
Potassium	ppm ASTM D5185m >20	<b>&lt;1</b>	0	1

### INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	<b>0.2</b>	0.3	0.3
Nitration	Abs/cm *ASTM D7624 >20	<b>6.7</b>	8.1	7.6
Sulfation	Abs/.1mm *ASTM D7415 >30	<b>18.6</b>	19.3	19.5

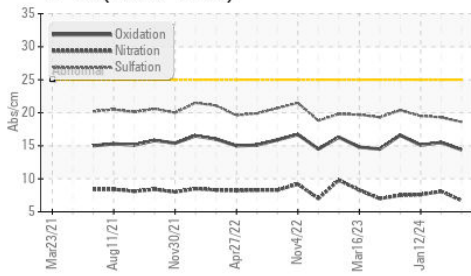
### FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	<b>14.4</b>	15.5	15.1
Base Number (BN)	mg KOH/g ASTM D2896 9.4	<b>8.6</b>	7.8	8.0

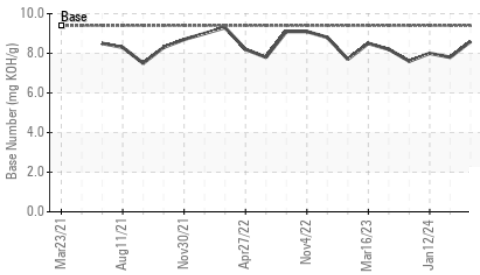


# OIL ANALYSIS REPORT

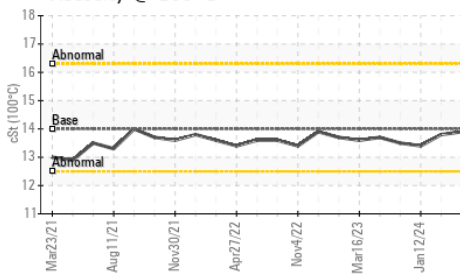
FT-IR (Direct Trend)



Base Number



Viscosity @ 100°C

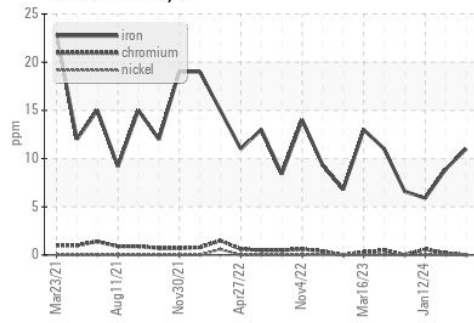


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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

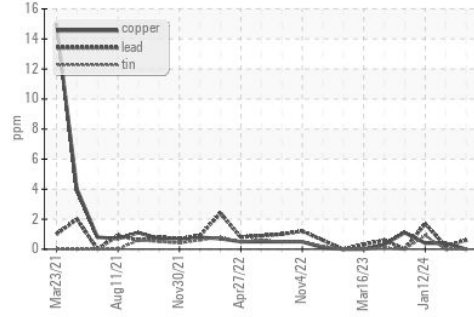
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445 14	13.9	13.8	13.4

## GRAPHS

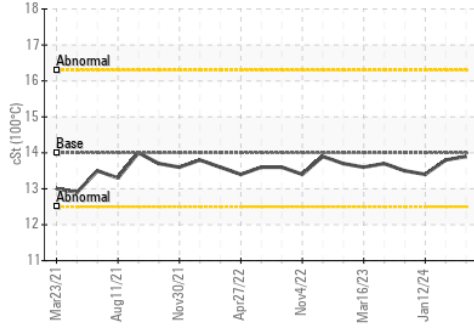
Ferrous Alloys



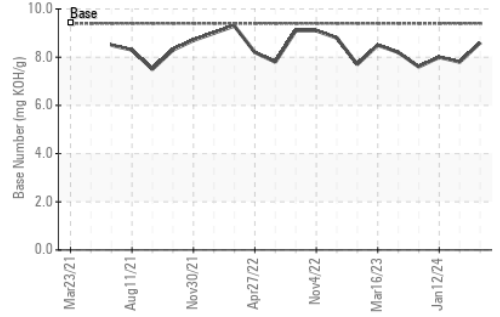
Non-ferrous Metals



Viscosity @ 100°C



Base Number



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : SBP0006886 **Received** : 13 May 2024  
**Lab Number** : 06178247 **Tested** : 14 May 2024  
**Unique Number** : 11029573 **Diagnosed** : 15 May 2024 - Sean Felton  
**Test Package** : FLEET

**Pillen Family Farms - 72288**  
 26741 NE-91  
 Humphrey, NE  
 US 61357  
 Contact: Troy Runge  
 troyfr@pillenfamilyfarms.com  
 T: (308)390-6733  
 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)