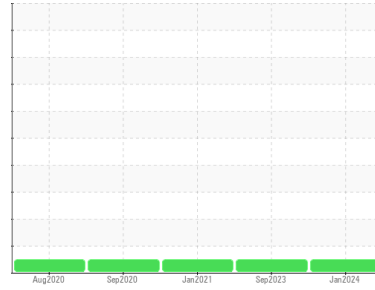




# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Area  
**Pillen Family Farms**  
 Machine Id  
**MILTK32**

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>SBP0006195</b>	SBP0006261	SBP32121001
Sample Date	Client Info	<b>12 Jan 2024</b>	29 Sep 2023	26 Jan 2021
Machine Age	hrs	<b>350</b>	0	0
Oil Age	hrs	<b>350</b>	0	350
Oil Changed	Client Info	<b>Not Changed</b>	N/A	Changed
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL

### CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >3.0	<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	0.0

### WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >200	<b>&lt;1</b>	2	11
Chromium	ppm ASTM D5185m >20	<b>&lt;1</b>	<1	1
Nickel	ppm ASTM D5185m >2	<b>0</b>	0	0
Titanium	ppm ASTM D5185m >2	<b>&lt;1</b>	0	0
Silver	ppm ASTM D5185m >2	<b>0</b>	0	0
Aluminum	ppm ASTM D5185m >30	<b>&lt;1</b>	<1	2
Lead	ppm ASTM D5185m >30	<b>2</b>	0	0
Copper	ppm ASTM D5185m >30	<b>&lt;1</b>	0	0
Tin	ppm ASTM D5185m >15	<b>&lt;1</b>	0	0
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>4</b>	10	51
Barium	ppm ASTM D5185m 0	<b>0</b>	0	0
Molybdenum	ppm ASTM D5185m 0	<b>58</b>	57	0
Manganese	ppm ASTM D5185m	<b>&lt;1</b>	<1	0
Magnesium	ppm ASTM D5185m 0	<b>872</b>	977	712
Calcium	ppm ASTM D5185m	<b>987</b>	1099	1255
Phosphorus	ppm ASTM D5185m	<b>1001</b>	1019	719
Zinc	ppm ASTM D5185m	<b>1151</b>	1280	805
Sulfur	ppm ASTM D5185m	<b>2907</b>	3187	---

### CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >30	<b>3</b>	3	5
Sodium	ppm ASTM D5185m	<b>2</b>	2	4
Potassium	ppm ASTM D5185m >20	<b>&lt;1</b>	1	2
Chlorine	ppm ASTM D5185m	<b>---</b>	---	0

### INFRA-RED

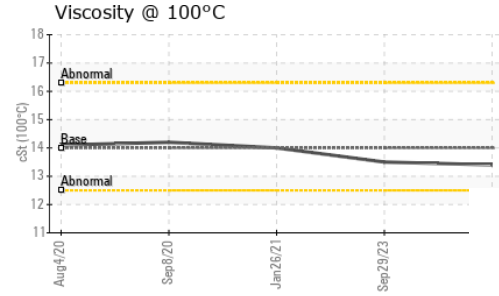
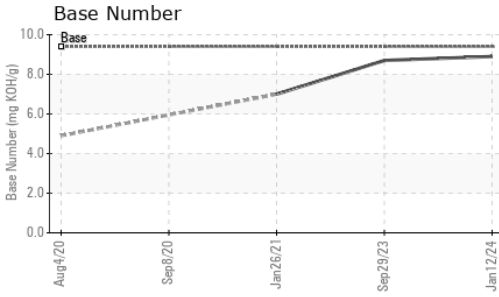
method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	<b>0.1</b>	0.1	1.38
Nitration	Abs/cm *ASTM D7624 >20	<b>5.3</b>	5.7	---
Sulfation	Abs/.1mm *ASTM D7415 >30	<b>17.9</b>	17.6	---

### FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	<b>13.4</b>	13.1	---
Base Number (BN)	mg KOH/g ASTM D2896 9.4	<b>8.9</b>	8.7	7.0



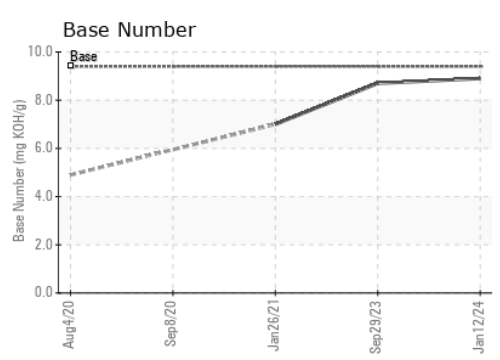
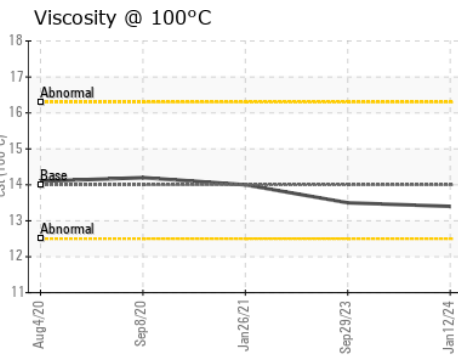
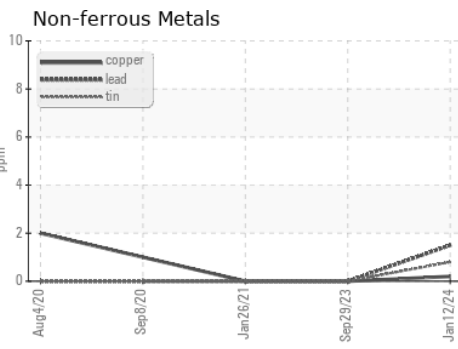
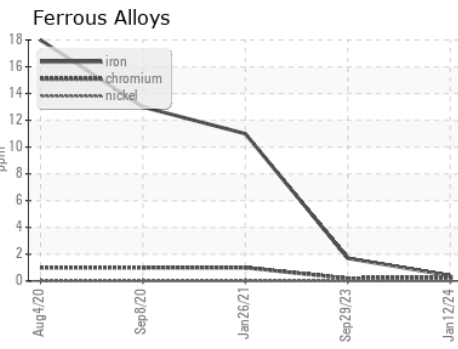
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	14	<b>13.4</b>	13.5	14

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : SBP0006195 **Received** : 01 Feb 2024  
**Lab Number** : **06077387** **Diagnosed** : 04 Feb 2024  
**Unique Number** : 10859478 **Diagnostician** : Don Baldrige  
**Test Package** : FLEET

**Pillen Family Farms - 722828**  
 26741 NE-91  
 Humphrey, NE  
 US 61357  
 Contact: Troy Runge  
 troyfr@pillenfamilyfarms.com  
 T: (308)390-6733  
 F:

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)