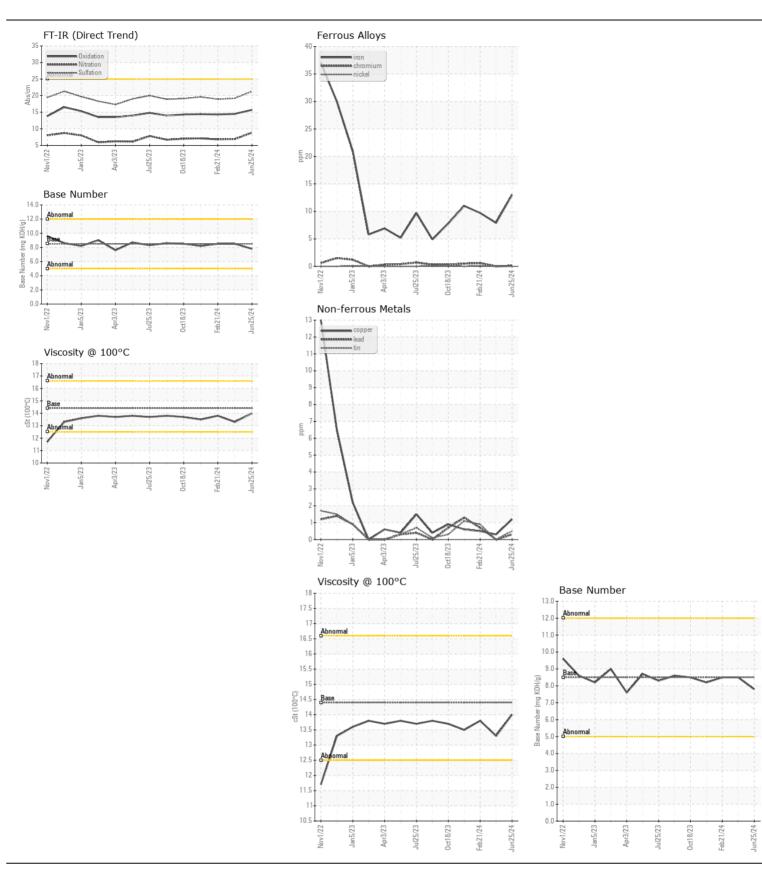
**WEAR** CONTAMINATION **FLUID CONDITION** 

**NORMAL NORMAL NORMAL** 

## Pillen Family Farms

MILTK45
Component
Diesel Engine

Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.  Sample Number  Client Info  SBP0006864  SBP0006824  Sample Date  Client Info  Machine Age  Oil Age  hrs  Client Info  O  Oil Changed  Filter Changed  Filter Changed  Client Info  Not Changd  N/A  N/A	History2 SBP0005340 21 Feb 2024 350 350
Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.  Sample Number  Client Info  SBP0006864  25 Jun 2024  18 Mar 2024  Machine Age hrs Client Info  Oil Age hrs Client Info  Filter Age hrs Client Info  Oil Changed  Client Info  Not Changed  Filter Changed  Client Info  Not Changed  Not Changed  Not Changed	SBP0005340 21 Feb 2024 350
Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.  Sample Date  Client Info  350  Oil Age  hrs  Client Info  O  Oil Changed  Filter Age  Oil Changed  Filter Changed  Client Info  Not Changed  N/A  N/A	21 Feb 2024 350
component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.  Machine Age hrs Client Info Oil Age hrs Client Info Oil Changed Client Info Oil Changed Client Info Not Changed Filter Changed Client Info Not Changed N/A N/A	350
Oil Age hrs Client Info 0 0 Filter Age hrs Client Info 0 0 Oil Changed Client Info Not Changd Filter Changed Client Info N/A N/A	
Filter AgehrsClient Info00Oil ChangedClient InfoNot ChangdNot ChangdFilter ChangedClient InfoN/AN/A	
Oil ChangedClient InfoNot ChangdFilter ChangedClient InfoN/A	0
Filter Changed Client Info N/A N/A	Not Changd
	N/A
Sample Status   NORMAL   NORMAL	NORMAL
WEAR         Iron         ppm         ASTM D5185m         >100         13         8	10
Chromium ppm ASTM D5185m >20 <1 0	<1
Metal levels are typical for a new component breaking in.  Nickel ppm ASTM D5185m >4 0 0	<1
Titanium ppm ASTM D5185m 0 0	<1
Silver         ppm         ASTM D5185m         >3         0         0	0
Aluminum ppm ASTM D5185m >20 <b>3</b> 2	4
Lead ppm ASTM D5185m >40 <1 0	<1
Copper         ppm         ASTM D5185m         >330         1         <1	<1
Tin ppm ASTM D5185m >15 <1 0	<1
Vanadium ppm ASTM D5185m 0 0	<1
White Metal scalar *Visual NONE NONE NONE	NONE
Yellow Metal scalar *Visual NONE NONE NONE	NONE
CONTAMINATION Silicon ppm ASTM D5185m >25 5 3	4
CONTAMINATION         Silicon         ppm         ASTM D5185m         >25         5         3           Potassium         ppm         ASTM D5185m         >20         6         0	2
There is no indication of any contamination in the oil.  Fuel  WC Method >5 <1.0 <1.0	<1.0
Water WC Method >0.2 NEG NEG	NEG
Glycol WC Method NEG NEG	NEG
Soot %	0.4
Nitration Abs/cm *ASTM D7624 >20 <b>8.8</b> 6.9	6.8
Sulfation         Abs/.1mm         *ASTM D7415         >30         21.3         19.2	18.9
Silt scalar *Visual NONE NONE NONE	NONE
Debris scalar *Visual NONE NONE NONE	NONE
Sand/Dirt scalar *Visual NONE NONE NONE	NONE
Appearance scalar *Visual NORML NORML NORML	NORML
Odor scalar *Visual NORML NORML NORML	NORML
Emulsified Water scalar *Visual >0.2 NEG NEG	NEG
FLUID CONDITION Sodium ppm ASTM D5185m >216 3 2	2
Boron ppm ASTM D5185m 250 <b>2</b> <1	2
The BN result indicates that there is suitable alkalinity remaining in the Barium ppm ASTM D5185m 10 0	0
oil. The condition of the oil is suitable for further service.  Molybdenum ppm ASTM D5185m 100 58 55	66
Manganese ppm ASTM D5185m 0 0	<1
Magnesium         ppm         ASTM D5185m         450         971         977	1035
Calcium         ppm         ASTM D5185m         3000         1085         1065	1126
Phosphorus         ppm         ASTM D5185m         1150         1013         879	1112
Zinc ppm ASTM D5185m 1350 <b>1274</b> 1215	1339
Sulfur         ppm         ASTM D5185m         4250         3213         3357	3361
Oxidation	14.3
Base Number (BN)         mg KOH/g         ASTM D2896         8.5         7.8         8.5	8.5
Visc @ 100°C cSt ASTM D445 14.4 \ 14.0 \) 13.3	13.8







Laboratory

Sample No. Lab Number : 06239775

Unique Number : 11128609 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : SBP0006864 Received : 17 Jul 2024 **Tested** : 18 Jul 2024

: 18 Jul 2024 - Wes Davis

Diagnosed

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.

Pillen Family Farms - 722828

26741 NE-91 Humphrey, NE US 61357

Contact: Troy Runge troyfr@pillenfamilyfarms.com T: (308)390-6733

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: