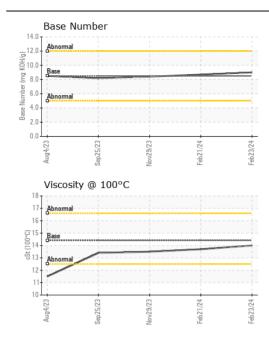
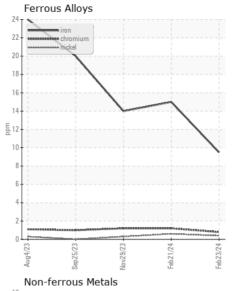
**WEAR** CONTAMINATION **FLUID CONDITION**  **NORMAL NORMAL NORMAL** 

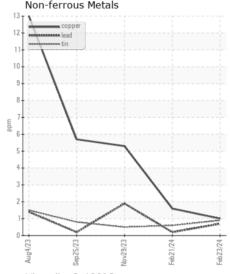
Machine Id Miltk 47

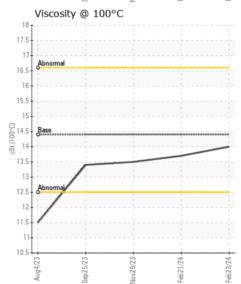
Component
Diesel Fngine

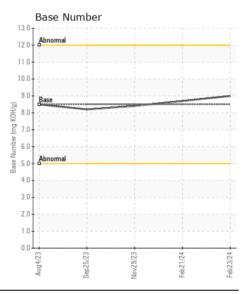
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		SBP0006837		SBP0006272
Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Date		Client Info		23 Feb 2024	21 Feb 2024	29 Nov 2023
	Machine Age	hrs	Client Info		350	350	0
	Oil Age	hrs	Client Info		0	350	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Not Changd	Not Changd	N/A
	Filter Changed		Client Info		Not Changd	N/A	N/A
	Sample Status				NORMAL	NORMAL	NORMAL
WEAD.	lunu		ACTM DE105	100	40	4.5	4.4
VEAR	Iron	ppm	ASTM D5185m		10	15	14
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	1	1
	Nickel	ppm	ASTM D5185m	>4	<1	<1	<1
	Titanium	ppm	ASTM D5185m	0	<1	<1	0
	Silver	ppm	ASTM D5185m		<1	0	0
	Aluminum	ppm	ASTM D5185m		7	11	16
	Lead	ppm	ASTM D5185m		<1	<1	2
	Copper	ppm	ASTM D5185m		1	2	5
	Tin	ppm	ASTM D5185m	>10	<1 <1	<1 0	<1 <1
	Vanadium White Metal	ppm	ASTM D5185m	NONE		NONE	NONE
	White Metal Yellow Metal	scalar	*Visual	NONE	NONE NONE	NONE	NONE
<u></u>	reliow Metal	scalar	VISUAI	INOINE	INONE	INOINE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	6	6	7
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	16	25	45
	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 %	%	*ASTM D7844	>3	0.2	0.3	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	5.8	6.5	6.5
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.0	18.5	18.6
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
LUD CONDITION	Codium	nn~	ACTM DE105-	. 010	4	0	0
FLUID CONDITION	Sodium	ppm	ASTM D5185m		1	2	3
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron Barium	ppm	ASTM D5185m				
	Molybdenum	ppm	ASTM D5185m ASTM D5185m		0 66	0 63	0 59
	Manganese	ppm	ASTM D5185m	100		0	
	Magnesium	ppm	ASTM D5185m	450	<1 1038	1020	<1 975
	Calcium	ppm	ASTM D5185m		1114	1020	1035
	Phosphorus	ppm	ASTM D5185m		1114	1108	946
	Zinc	ppm	ASTM D5185m		1335	1328	1273
	Sulfur	ppm	ASTM D5185m		3446	3524	3121
	Oxidation	Abs/.1mm	*ASTM D3163111		13.7	14.0	14.2
	Oxidation	Wn9/*IIIIII					
	Base Number (BN)	ma K∩⊔/a	ASTM D2896	2.5	9.0	8.7	8.4













Certificate L2367

Laboratory Sample No.

: SBP0006837 Lab Number : 06104752 Unique Number : 10902982 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 29 Feb 2024 : 01 Mar 2024 **Tested** 

Diagnosed

: 01 Mar 2024 - Wes Davis

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

Pillen Family Farms - 722828

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)

26741 NE-91

Humphrey, NE

US 61357