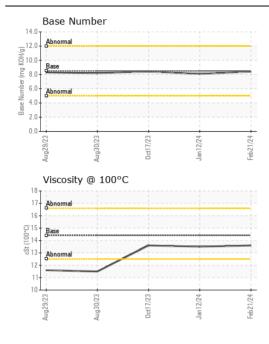
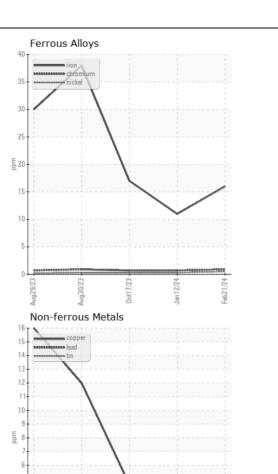
WEAR CONTAMINATION **FLUID CONDITION** **NORMAL** NORMAL **NORMAL**

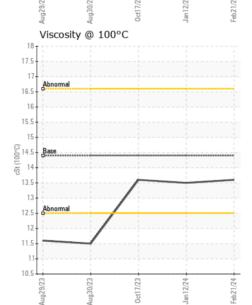
Machine Id MILTK49

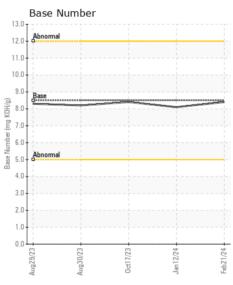
Component Diesel Engine

Test	DIESEL ENGINE OIL SAE 40 (GAL)							
Resample at the noxt 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. Please specify the brand, type, and viscosity of the oil on your next sample. Please specify the brand, type, and viscosity of the oil on your next sample. Please specify the brand, type, and viscosity of the oil on your next sample. Please specify the brand, type, and viscosity of the oil on your next sample. Please specify the brand, type, and viscosity of the oil on your next sample. Please specify the brand, type, and viscosity of the oil on your next sample. Please specify the brand, type, and viscosity of the oil on your next sample. Please specify the brand, type, and viscosity of the oil on your next sample. Please specify the please sp							 Luca - 2	
Sample Date Client Info Component was an model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample. Please specify the brand, type, and viscosity of the oil on your next sample. Please specify the brand, type, and viscosity of the oil on your next sample. Please specify the brand, type, and viscosity of the oil on your next sample. Please specify the brand, type, and viscosity of the oil on your next sample. Please specify the brand, type, and viscosity of the oil on your next sample. Please specify the brand, type, and viscosity of the oil on your next sample. Please specify the brand, type, and viscosity of the oil on your next sample. Please specify the brand, type, and viscosity of the oil on your next sample. Please specify the brand, type, and viscosity of the oil on your next sample. Please specify the brand, type, and viscosity of the oil on your next sample. Please specify the pleas	RECOMMENDATION		UOM		Limit/Abn			
component make and mode with your next sample. Machine Age in the control of the oil of your next sample. Machine Age in the control of the oil of your next sample. Machine Age in the control of the oil of your next sample. Machine Age in the control of the oil of your next sample. Machine Age in the control of the oil of your next sample. Machine Age in the your next sample. Machine Age i	component make and model with your next sample. Please specify the							
On Age			hro					
Filter Age hrs Client Info Client In		•						
Cilch Cil								
Filter Changoad Client Info NA NA NA NA NA NA NA N		•	nrs			-		
Normal N								
Iron		•		Client Into				
All component wear rates are normal. Chromium ppm ASTM D6185m 20		Sample Status				NORMAL	NORIVIAL	NORIVIAL
All component wear rates are normal. Nicke	WEAR	Iron	ppm	ASTM D5185m	>100	16	11	17
Titanium ppm ASTM DSISSm	All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Silver ppm ASTM D5185m 32 c1 0 0 0 0 0 0 0 0 0		Nickel	ppm	ASTM D5185m	>4	<1	<1	<1
Aluminum ppm ASTM D5185m >20 4 4 8		Titanium	ppm	ASTM D5185m		<1	<1	<1
Lead ppm ASTM DS185m 340 1 2 1 1 1 1 1 1 1 1		Silver	ppm	ASTM D5185m	>3	<1	0	0
Copper		Aluminum	ppm	ASTM D5185m	>20	4	4	8
Tin		Lead	ppm	ASTM D5185m	>40	1	2	1
Vanadium Vanadium		Copper	ppm	ASTM D5185m	>330	2	2	5
White Metal Yellow Metal Scalar Yusual NONE NONE NONE NONE NONE NONE NONE NON		Tin	ppm	ASTM D5185m	>15	1	1	<1
Solicon		Vanadium	ppm	ASTM D5185m		<1	0	0
Silicon ppm ASTM D5185m >25 6 5 12		White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Potassium ppm ASTM D5185m >20 7 8 28		Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Potassium ppm ASTM D5185m >20 7 8 28	CONTAMINATION	Silicon	nnm	ASTM D5185m	>25	6	5	12
Fuel WC Method S S C C C C								
Water WC Method O.2 NEG Ne	There is no indication of any contamination in the oil.		ррпп					
Glycol								
Soot % %					7 O.L			
Nitration Abs/cm *ASTM D7624 >20 6.9 6.8 6.7			%		>3			
Sulfation Abs/.tmm *ASTM D7415 >30 18.5 18.4 18.3								
Silt Scalar *Visual NONE NORML NO								
Debris Scalar *Visual NONE NONE NONE NONE NONE NONE Sand/Dirt Scalar *Visual NONE NORML NORML								
Sand/Dirt Scalar *Visual NONE NONE NONE Appearance Scalar *Visual NORML NORM						_		
Appearance								
Color Scalar Visual NORML NORML NORML NORML NORML NORML NORML NORML NEG NEG								
Emulsified Water scalar *Visual >0.2 NEG NEG NEG								
Boron ppm ASTM D5185m 250 2 1 7								
Boron ppm ASTM D5185m 250 2 1 7	EL LUD CONDITION	Ca alia		ACTM DE10E	010	•		
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service. Barium ppm ASTM D5185m 100 68 60 60	FLUID CONDITION							
oil. The condition of the oil is suitable for further service. Molybdenum ppm ASTM D5185m 100 68 60 60	,							
Manganese ppm ASTM D5185m <1								
Magnesium ppm ASTM D5185m 450 1028 903 931 Calcium ppm ASTM D5185m 3000 1112 990 1143 Phosphorus ppm ASTM D5185m 1150 1129 1010 997 Zinc ppm ASTM D5185m 1350 1325 1160 1234 Sulfur ppm ASTM D5185m 4250 3370 2908 3552 Oxidation Abs/.1mm *ASTM D7414 >25 14.1 13.8 13.8 Base Number (BN) mg KOH/g ASTM D2896 8.5 8.4 8.1 8.4		•			100			
Calcium ppm ASTM D5185m 3000 1112 990 1143 Phosphorus ppm ASTM D5185m 1150 1129 1010 997 Zinc ppm ASTM D5185m 1350 1325 1160 1234 Sulfur ppm ASTM D5185m 4250 3370 2908 3552 Oxidation Abs/.1mm *ASTM D7414 >25 14.1 13.8 13.8 Base Number (BN) mg KOH/g ASTM D2896 8.5 8.4 8.1 8.4					450			
Phosphorus ppm ASTM D5185m 1150 1129 1010 997 Zinc ppm ASTM D5185m 1350 1325 1160 1234 Sulfur ppm ASTM D5185m 4250 3370 2908 3552 Oxidation Abs/.1mm *ASTM D7414 >25 14.1 13.8 13.8 Base Number (BN) mg KOH/g ASTM D2896 8.5 8.4 8.1 8.4		•						
Zinc ppm ASTM D5185m 1350 1325 1160 1234 Sulfur ppm ASTM D5185m 4250 3370 2908 3552 Oxidation Abs/.1mm *ASTM D7414 >25 14.1 13.8 13.8 Base Number (BN) mg KOH/g ASTM D2896 8.5 8.4 8.1 8.4								
Sulfur ppm ASTM D5185m 4250 3370 2908 3552 Oxidation Abs/.1mm *ASTM D7414 >25 14.1 13.8 13.8 Base Number (BN) mg KOH/g ASTM D2896 8.5 8.4 8.1 8.4		•						
Oxidation Abs/.1mm *ASTM D7414 >25 14.1 13.8 13.8 Base Number (BN) mg KOH/g ASTM D2896 8.5 8.4 8.1 8.4								
Base Number (BN) mg KOH/g ASTM D2896 8.5 8.4 8.1 8.4								
VISC @ 100°C CSt ASTM D445 14.4 13.6 13.5 13.6								
		visc @ 100°C	UOL	A3 I IVI D443	14.4	13.0	13.3	13.0











Certificate L2367

Laboratory

Sample No.

Lab Number : 06104747 Unique Number : 10902977 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : SBP0005337

Received : 29 Feb 2024 **Tested** : 01 Mar 2024 Diagnosed

: 01 Mar 2024 - Wes Davis

26741 NE-91 Humphrey, NE US 61357 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)