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

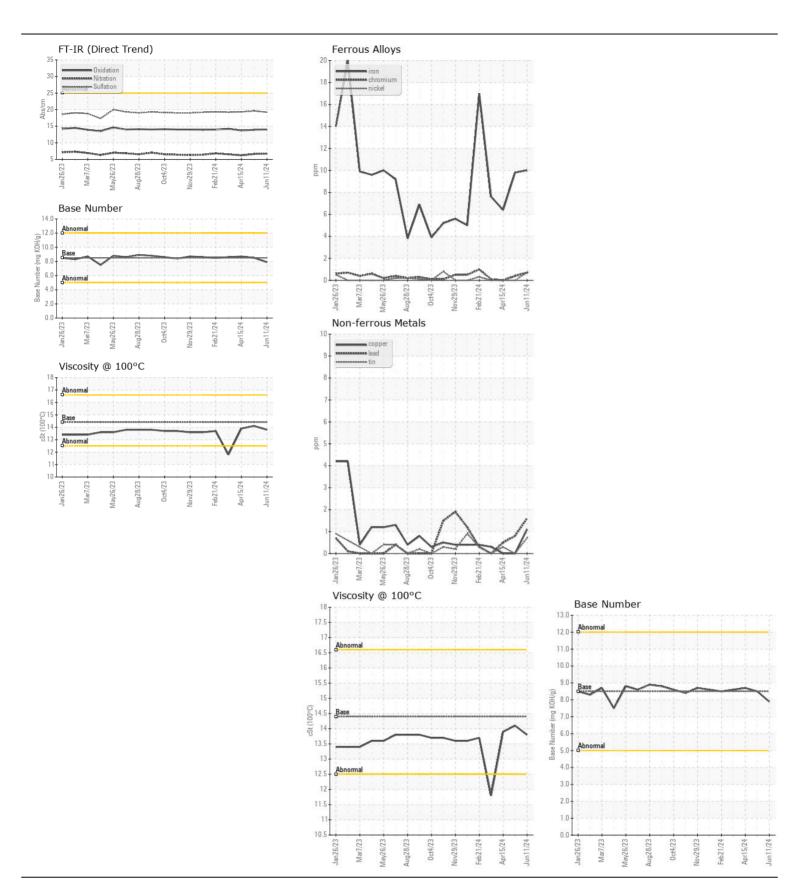
**NORMAL NORMAL NORMAL** 

## Pillen Family Farms

LSTK63

Diesel Engine

DIESEL ENGINE OIL SAE 40 ( GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
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		SBP0006856	SBP0006877	SBP0006792
	Sample Date		Client Info		11 Jun 2024	08 May 2024	15 Apr 2024
	Machine Age	mls	Client Info		12000	12000	12000
	Oil Age	mls	Client Info		0	0	0
	Filter Age	mls	Client Info		0	0	0
	Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	10	10	6
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m	>20	<1	<1	0
	Nickel	ppm	ASTM D5185m	>4	<1	0	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m	>3	<1	<1	0
	Aluminum	ppm	ASTM D5185m	>20	4	4	2
	Lead	ppm	ASTM D5185m	>40	2	<1	<1
	Copper	ppm	ASTM D5185m		1	0	0
	Tin	ppm	ASTM D5185m	>15	<1	0	<1
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	4	4	3
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	4	<1	1
	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		0.6	0.7	0.6
	Nitration	Abs/cm	*ASTM D7624	>20	6.7	6.6	6.2
	Sulfation	Abs/.1mm	*ASTM D7415		19.2	19.6	19.3
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE NORML	NONE	NONE NORML
	Appearance Odor	scalar scalar	*Visual *Visual	NORML NORML	NORML	NORML NORML	NORML
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
ELUID CONDITION			AOTA DELOE	040			
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	1	2
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		<1	0	0
	Barium Molybdenum	ppm	ASTM D5185m ASTM D5185m		1 62	0 63	0 62
	Manganese	ppm	ASTM D5185m	100	<1	<1	0
	Magnesium	ppm	ASTM D5185m	450	951	1098	1066
	Calcium	ppm	ASTM D5185m		1092	1266	1174
	Phosphorus	ppm	ASTM D5185m		1106	1174	1127
	Zinc	ppm		1350	1252	1483	1405
	Sulfur	ppm	ASTM D5185m		3093	3997	3843
	Oxidation	Abs/.1mm	*ASTM D7414		14.0	13.9	13.7
	Base Number (BN)				7.9	8.5	8.7
	Visc @ 100°C	cSt	ASTM D445		13.8	14.1	13.9
					.3.0		. 5.0







Certificate L2367

Laboratory Sample No.

Lab Number : 06219224 Unique Number : 11097421 Test Package : FLEET

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : SBP0006856 Received : 24 Jun 2024 **Tested** : 25 Jun 2024

Diagnosed

: 25 Jun 2024 - Wes Davis

26741 NE-91 Humphrey, NE US 61357 Contact: Troy Runge

Pillen Family Farms - 722828

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

\* - 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)

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