WEAR CONTAMINATION **FLUID CONDITION**

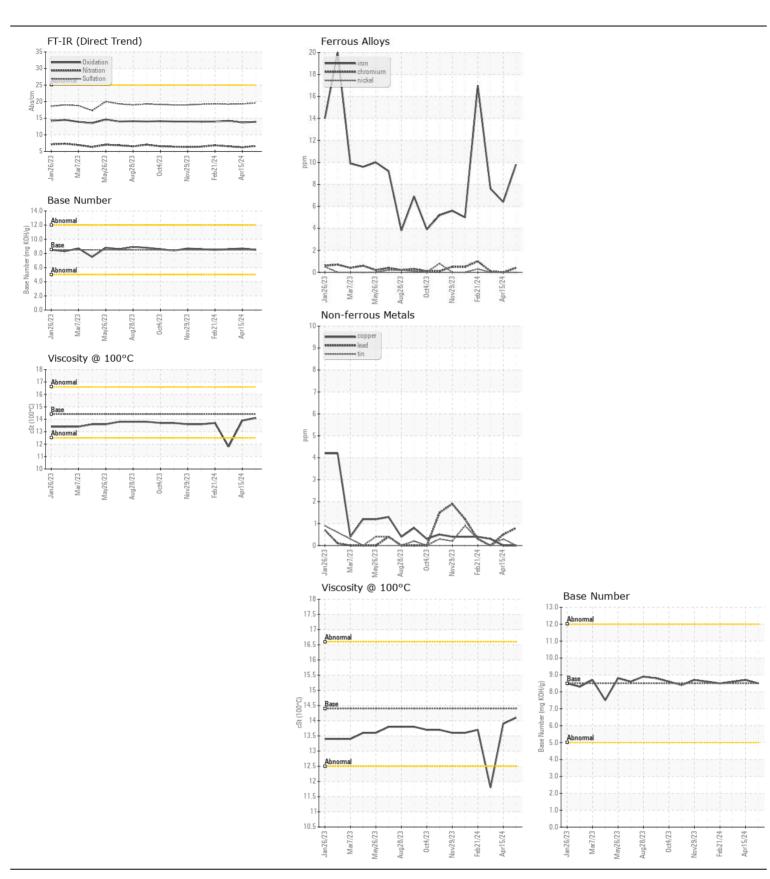
NORMAL NORMAL NORMAL

Pillen Family Farms

LSTK63

Component
Diesel Engine

DIESEL ENGINE OIL SAE 40 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number	00	Client Info	21111071011	SBP0006877	-	SBP0006813
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		08 May 2024	15 Apr 2024	18 Mar 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	ATTENTION
WEAR	Iron	ppm	ASTM D5185m	>100	10	6	8
	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	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>3	<1	0	0
	Aluminum	ppm	ASTM D5185m	>20	4	2	3
	Lead	ppm	ASTM D5185m	>40	<1	<1	0
	Copper	ppm	ASTM D5185m		0	0	<1
	Tin	ppm	ASTM D5185m	>15	0	<1	0
	Vanadium	ppm	ASTM D5185m		0	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	3	2
CONTAININATION	Potassium	ppm	ASTM D5185m		<1	1	0
There is no indication of any contamination in the oil.	Fuel	ррпп	WC Method		<1.0	<1.0	0.4
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	70.L	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.7	0.6	0.6
	Nitration	Abs/cm	*ASTM D7624	>20	6.6	6.2	6.5
	Sulfation	Abs/.1mm	*ASTM D7415		19.6	19.3	19.2
	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	1	2	2
	Boron	ppm	ASTM D5185m		0	0	0
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		0	0	0
	Molybdenum	ppm	ASTM D5185m	100	63	62	55
	Manganese	ppm	ASTM D5185m		<1	0	0
	Magnesium	ppm	ASTM D5185m	450	1098	1066	964
	Calcium	ppm	ASTM D5185m	3000	1266	1174	1049
	Phosphorus	ppm	ASTM D5185m	1150	1174	1127	900
	Zinc	ppm	ASTM D5185m	1350	1483	1405	1194
	Sulfur	ppm	ASTM D5185m	4250	3997	3843	3342
	Oxidation	Abs/.1mm	*ASTM D7414	>25	13.9	13.7	14.2
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.5	8.7	8.6
	Visc @ 100°C	cSt	ASTM D445	14.4	14.1	13.9	11.8







Certificate L2367

Report Id: PILHUM [WUSCAR] 06193295 (Generated: 05/30/2024 08:35:13) Rev: 1

Laboratory Sample No.

: SBP0006877 Lab Number : 06193295 Unique Number : 11050047 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 28 May 2024 **Tested** : 30 May 2024

: 30 May 2024 - Wes Davis Diagnosed

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

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

Pillen Family Farms - 722828

* - 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)

Submitted By: JUSTIN HANSON

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Humphrey, NE

US 61357

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