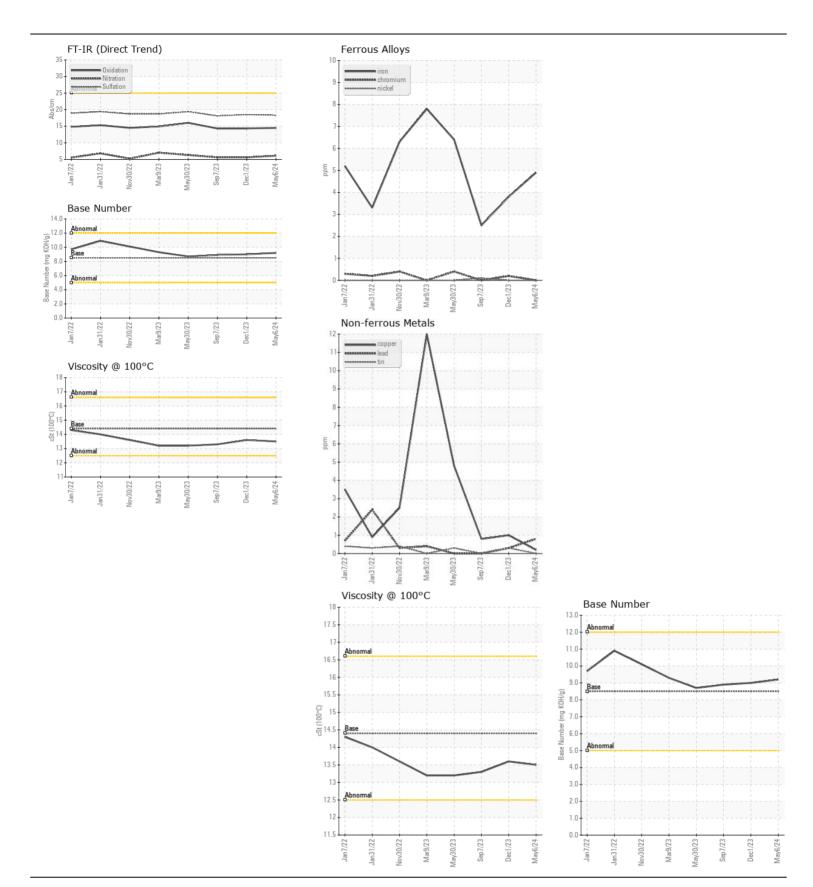
**WEAR** CONTAMINATION **FLUID CONDITION** 

**NORMAL NORMAL NORMAL** 

## Pillen Family Farms

Shag 07
Component
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		SBP0006871	SBP0006270	SBP0001001
	Sample Date		Client Info		06 May 2024	01 Dec 2023	07 Sep 2023
	Machine Age	hrs	Client Info		350	0	0
	Oil Age	hrs	Client Info		350	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Not Changd	N/A	N/A
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	5	4	2
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m	>20	0	<1	0
	Nickel	ppm	ASTM D5185m	>4	0	0	<1
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m	>3	<1	0	0
	Aluminum	ppm	ASTM D5185m	>20	<1	<1	<1
	Lead	ppm	ASTM D5185m	>40	<1	<1	0
	Copper	ppm	ASTM D5185m	>330	<1	1	<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	2	3	3
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	<1	1	2
	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	0.1	0.1	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	6.1	5.6	5.6
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.3	18.5	18.1
	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	0	2	2
	Boron	ppm	ASTM D5185m		<1	27	2
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	62	61	62
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m	450	1113	899	1026
	Calcium	ppm	ASTM D5185m	3000	1272	1226	1107
	Phosphorus	ppm	ASTM D5185m	1150	1215	1054	1154
	Zinc	ppm	ASTM D5185m	1350	1489	1269	1379
	Sulfur	ppm	ASTM D5185m	4250	4223	3282	3423
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.5	14.3	14.3
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	9.2	9.0	8.9
	Visc @ 100°C	cSt	ASTM D445	14.4	13.5	13.6	13.3







Certificate L2367

Laboratory Sample No.

: SBP0006871 Lab Number : 06193306 Unique Number : 11050058 Test Package : FLEET

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

Diagnosed : 30 May 2024 - Wes Davis

26741 NE-91 Humphrey, NE US 61357

Pillen Family Farms - 722828

Contact: Troy Runge troyfr@pillenfamilyfarms.com

T: (308)390-6733

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)

F: