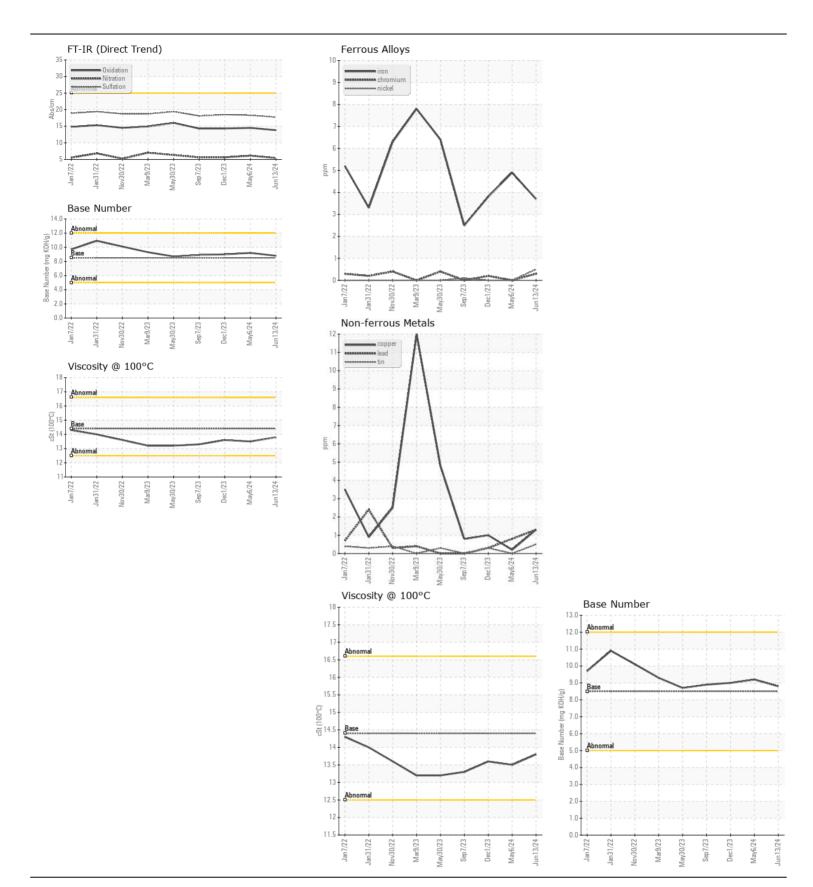
WEAR CONTAMINATION **FLUID CONDITION**

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
	Sample Number	OOW	Client Info	LITTIO/ NOT	SBP0006859	SBP0006871	SBP0006270
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		13 Jun 2024	06 May 2024	01 Dec 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		N/A	N/A	N/A
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	4	5	4
WEAT	Chromium	ppm	ASTM D5185m		- <1	0	<1
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m		<1	0	0
	Titanium	ppm	ASTM D5185m		<1	0	<1
	Silver	ppm	ASTM D5185m	>3	<1	<1	0
	Aluminum	ppm	ASTM D5185m		3	<1	<1
	Lead	ppm	ASTM D5185m		1	<1	<1
	Copper	ppm	ASTM D5185m	>330	1	<1	1
	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	3	2	3
	Potassium	ppm	ASTM D5185m		2	<1	1
There is no indication of any contamination in the oil.	Fuel	le le · · ·	WC Method		<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	5.4	6.1	5.6
	Sulfation	Abs/.1mm	*ASTM D7415	>30	17.7	18.3	18.5
	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	0	2
	Boron	ppm	ASTM D5185m	250	1	<1	27
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	10	1	0	0
	Molybdenum	ppm	ASTM D5185m	100	61	62	61
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m	450	950	1113	899
	Calcium	ppm	ASTM D5185m	3000	1081	1272	1226
	Phosphorus	ppm	ASTM D5185m	1150	1115	1215	1054
	Zinc	ppm	ASTM D5185m	1350	1217	1489	1269
	Sulfur	ppm	ASTM D5185m	4250	3201	4223	3282
	Oxidation	Abs/.1mm	*ASTM D7414	>25	13.8	14.5	14.3
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.8	9.2	9.0
	Visc @ 100°C	cSt	ASTM D445	14.4	13.8	13.5	13.6







Certificate L2367

Laboratory

Sample No.

: SBP0006859 Lab Number : 06219203 Unique Number : 11097400 Test Package : FLEET

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

Diagnosed

: 25 Jun 2024 - Wes Davis

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)

F:

26741 NE-91

Humphrey, NE