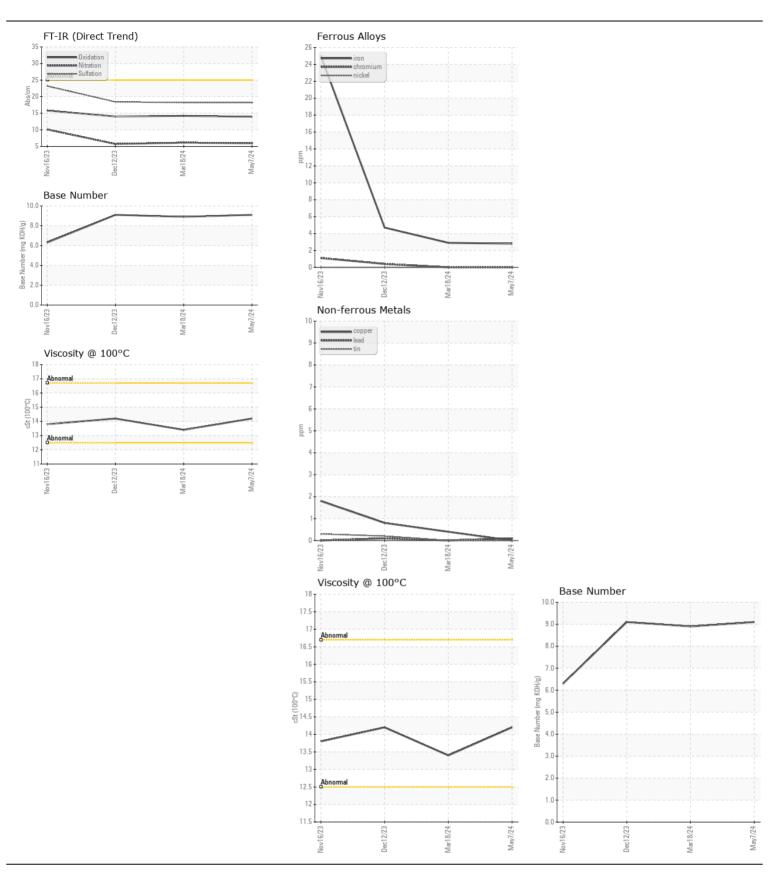
WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

Shag 12 Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		SBP0006874	SBP0006810	
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		07 May 2024	18 Mar 2024	12 Dec 202
	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
VEAR	Iron	ppm	ASTM D5185m	>100	3	3	5
	Chromium	ppm	ASTM D5185m	>20	0	0	<1
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m	>3	<1	0	0
	Aluminum	ppm	ASTM D5185m	>20	<1	2	2
	Lead	ppm	ASTM D5185m	>40	<1	0	<1
	Copper	ppm	ASTM D5185m	>330	0	<1	<1
	Tin	ppm	ASTM D5185m	>15	0	0	<1
	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	2	4
SONTAMINATION	Potassium	ppm	ASTM D5185m		<1	0	2
There is no indication of any contamination in the oil.	Fuel	ррпп	WC Method	>5	<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	7 0.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.2	0.2	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	5.9	6.1	5.7
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.2	18.2	18.4
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0	2	3
	Boron	ppm	ASTM D5185m		0	1	3
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		58	54	57
	Manganese	ppm	ASTM D5185m		0	0	<1
	Magnesium	ppm	ASTM D5185m		1034	958	919
	Calcium	ppm	ASTM D5185m		1183	1080	1181
	Phosphorus	ppm	ASTM D5185m		1142	924	1044
	Zinc	ppm	ASTM D5185m		1401	1216	1255
	Sulfur	ppm	ASTM D5185m		4000	3530	3286
	Oxidation	Abs/.1mm	*ASTM D7414	>25	13.9	14.2	14.0
	Base Number (BN)	mg KOH/g	ASTM D2896		9.1	8.9	9.1
	Visc @ 100°C	cSt	ASTM D445		14.2	13.4	14.2







Certificate L2367

Laboratory Sample No.

Lab Number : 06193309 Unique Number : 11050061 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : SBP0006874

Received **Tested** Diagnosed

: 28 May 2024 : 30 May 2024

: 30 May 2024 - Wes Davis

Humphrey, NE US 61357 Contact: Troy Runge troyfr@pillenfamilyfarms.com T: (308)390-6733 F:

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) 26741 NE-91