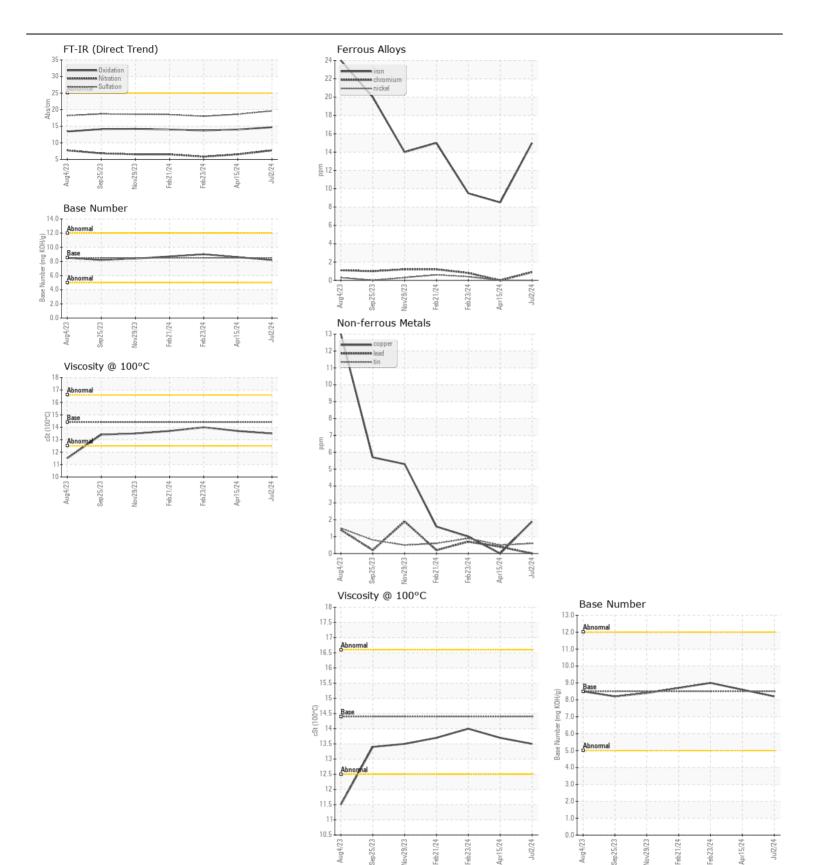
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL NORMAL

Machine Id

Miltk 47
Component
Diesel Engine

Diesel Engine DIESEL ENGINE OIL SAE 40 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		SBP0005402	SBP0006791	SBP0006837
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		02 Jul 2024	15 Apr 2024	23 Feb 2024
	Machine Age	hrs	Client Info		350	350	350
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Not Changd	Not Changd	Not Chango
	Filter Changed		Client Info		N/A	N/A	Not Chango
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	nnm	ASTM D5185m	>100	15	8	10
WEAN	Chromium	ppm	ASTM D5185m		15 <1	0	<1
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m		0	0	<1
	Titanium	ppm	ASTM D5185m	24	0	0	<1
	Silver		ASTM D5185m	~3	<1	0	<1
	Aluminum	ppm	ASTM D5185m		12	4	7
	Lead	ppm	ASTM D5185m		0	<1	<1
	Copper	ppm	ASTM D5185m		2	0	1
	Tin	ppm	ASTM D5185m		- <1	<1	<1
	Vanadium	ppm	ASTM D5185m	7.0	0	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m		5	4	6
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		35	10	16
	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol	21	WC Method	0	NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.5	0.3	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	7.7	6.5	5.8
	Sulfation	Abs/.1mm	*ASTM D7415		19.6	18.6 NONE	18.0
	Silt	scalar	*Visual *Visual	NONE	NONE	NONE NONE	NONE
	Debris	scalar		NONE	NONE NONE	NONE	NONE
	Sand/Dirt	scalar scalar	*Visual	NONE NORML	NORML	NORML	NORML
	Appearance Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water			>0.2	NEG	NEG	NEG
			Vioudi			1420	
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>216	3	2	1
	Boron	ppm	ASTM D5185m	250	2	0	1
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	0	0	0
	Molybdenum	ppm	ASTM D5185m	100	58	63	66
	Manganese	ppm	ASTM D5185m		0	0	<1
	Magnesium	ppm	ASTM D5185m		951	1076	1038
	Calcium	ppm	ASTM D5185m		1068	1199	1114
	Phosphorus	ppm	ASTM D5185m		1022	1136	1124
	Zinc	ppm	ASTM D5185m		1267	1442	1335
	Sulfur	ppm	ASTM D5185m		3472	4006	3446
	Oxidation	Abs/.1mm	*ASTM D7414		14.7	14.0	13.7
	Base Number (BN)				8.2	8.6	9.0
	Visc @ 100°C	cSt	ASTM D445	14.4	13.5	13.7	14.0







Certificate L2367

Laboratory Sample No.

: SBP0005402 Lab Number : 06239789 Unique Number : 11128623 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 17 Jul 2024 **Tested** : 18 Jul 2024

Diagnosed : 18 Jul 2024 - Wes Davis Pillen Family Farms - 722828

26741 NE-91 Humphrey, NE US 61357

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: