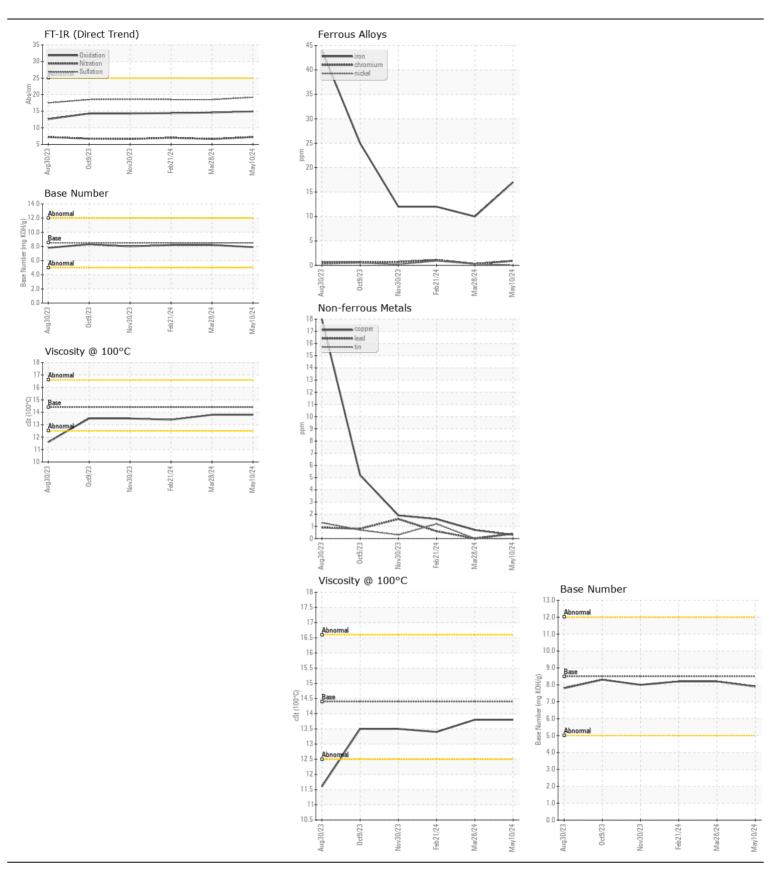
**WEAR** CONTAMINATION **FLUID CONDITION** 

**NORMAL NORMAL NORMAL** 

Machine Id

DBTK18
Component
Diocol En

Diesel Engine Fluid DIESEL ENGINE OIL SAE 40 ( GAL)							
	T4		Madaal			L Bakamid	L linta m .O
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.	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		SBP0006878	SBP0006816	SBP0005342
	Sample Date	mle	Client Info		10 May 2024	28 Mar 2024	21 Feb 2024
	Machine Age	mls	Client Info		12000	0	12000
	Oil Age	mls	Client Info		12000 0	0	12000
	Filter Age Oil Changed	mls	Client Info		-	0 N/A	
	Filter Changed		Client Info		Not Changd N/A	N/A	Not Changd N/A
	Sample Status		Client into		N/A NORMAL	NORMAL	NORMAL
					INONIVIAL	INOTTIVIAL	
WEAR	Iron	ppm	ASTM D5185m	>100	17	10	12
	Chromium	ppm	ASTM D5185m	>20	<1	<1	1
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m	>4	0	<1	<1
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m	>3	<1	0	<1
	Aluminum	ppm	ASTM D5185m	>20	6	4	7
	Lead	ppm	ASTM D5185m	>40	<1	0	<1
	Copper	ppm	ASTM D5185m	>330	<1	<1	2
	Tin	ppm	ASTM D5185m	>15	0	0	1
	Vanadium	ppm	ASTM D5185m		0	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTANUNATION					_		
CONTAMINATION	Silicon	ppm	ASTM D5185m		5	4	5
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		16	8	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		0.3	0.2	0
	Nitration	Abs/cm	*ASTM D7624	>20	7.2	6.6	7.0
	Sulfation	Abs/.1mm	*ASTM D7415		19.2	18.5	18.5
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE NORML
	Appearance Odor	scalar	*Visual *Visual	NORML NORML	NORML	NORML NORML	NORML
	Emulsified Water	scalar		>0.2	NORML NEG	NEG	NEG
	Emuisineu water	Scalai	VISUAI	>0.2	NEG	NEG	INEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>216	1	2	6
	Boron	ppm	ASTM D5185m	250	0	<1	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	2
	Molybdenum	ppm	ASTM D5185m	100	63	55	53
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m	450	1117	977	882
	Calcium	ppm	ASTM D5185m		1260	1080	898
	Phosphorus	ppm	ASTM D5185m	1150	1182	1082	890
	Zinc	ppm	ASTM D5185m	1350	1481	1224	1104
	Sulfur	ppm	ASTM D5185m	4250	4052	3418	2749
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.9	14.6	14.4
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	7.9	8.2	8.2
	Visc @ 100°C	cSt	ASTM D445	14.4	13.8	13.8	13.4
	-						







Certificate L2367

Laboratory

Sample No.

: SBP0006878 Lab Number : 06193300 Unique Number : 11050052 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

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)

26741 NE-91

Humphrey, NE

US 61357

F: