WEAR CONTAMINATION FLUID CONDITION

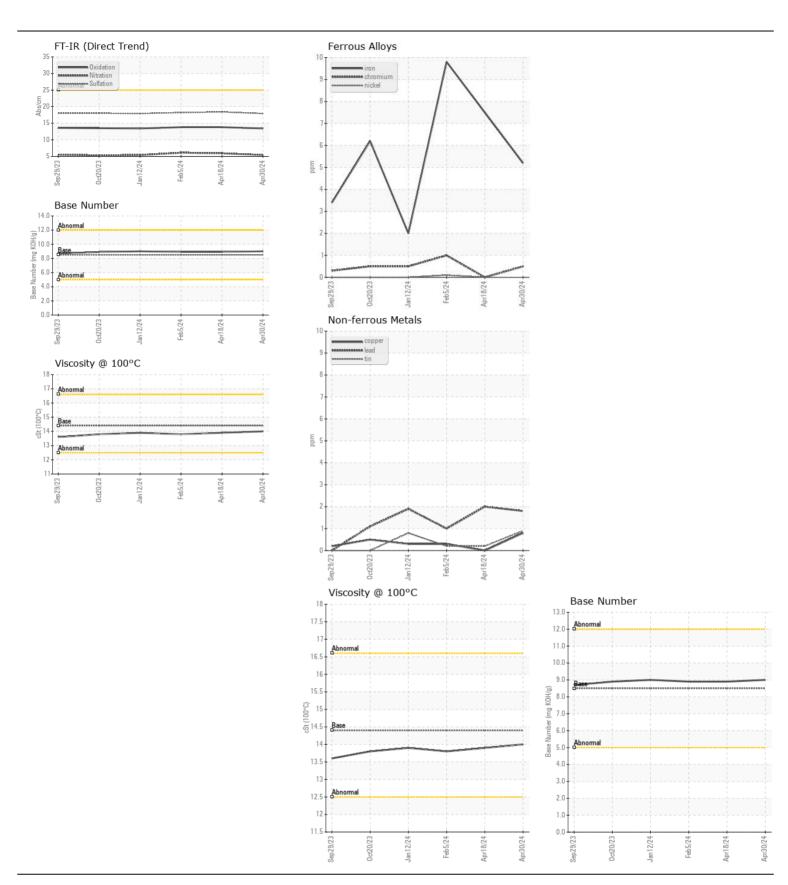
NORMAL NORMAL NORMAL

Machine Id

FEEDTK19

Component Diesel Engine

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	OOW	Client Info	LIIIII/AUII	SBP0006885	SBP0006795	SBP0005325
	Sample Date		Client Info		30 Apr 2024	18 Apr 2024	05 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	0	Client Info		Not Changd	Not Changd	Not Change
	Filter Changed		Client Info		Not Changd	N/A	N/A
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	5	8	10
	Chromium	ppm	ASTM D5185m	>20	<1	0	1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>4	<1	0	<1
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m	>3	<1	0	0
	Aluminum	ppm	ASTM D5185m	>20	2	0	2
	Lead	ppm	ASTM D5185m	>40	2	2	1
	Copper	ppm	ASTM D5185m	>330	<1	0	<1
	Tin	ppm	ASTM D5185m	>15	<1	<1	<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		4	4	4
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	2	<1	<1
	Fuel		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		0.3	0.4	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	5.4	5.9	6.1
	Sulfation	Abs/.1mm	*ASTM D7415		17.9	18.4	18.2
	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	NORMI
	Odor	scalar	*Visual	NORML	NORML	NORML	NORMI
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		<1	<1	1
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		4	0	2
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m	100	57	62	64
	Manganese	ppm	ASTM D5185m	4.5	<1	0	0
	Magnesium	ppm	ASTM D5185m		933	1067	1025
	Calcium	ppm	ASTM D5185m		1082	1234	1105
	Phosphorus	ppm	ASTM D5185m		1028	1139	1114
	Zinc	ppm	ASTM D5185m		1221	1434	1343
	Sulfur	ppm	ASTM D5185m		3578	4068	3563
	Oxidation	Abs/.1mm	*ASTM D7414		13.4	13.8	13.8
	Base Number (BN)				9.0	8.9	8.9
	Visc @ 100°C	cSt	ASTM D445	144	14.0	13.9	13.8







Certificate L2367

Laboratory

Sample No.

Lab Number : 06178248 Unique Number : 11029574 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : SBP0006885 Received : 13 May 2024 **Tested**

Diagnosed

: 16 May 2024 : 16 May 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)

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