WEAR CONTAMINATION FLUID CONDITION

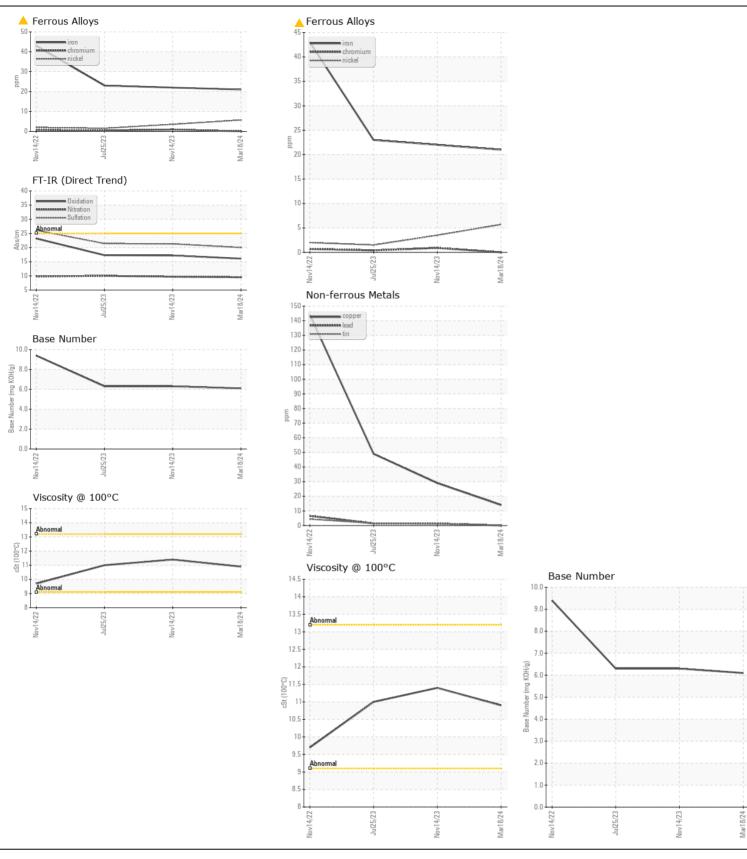
ABNORMAL NORMAL NORMAL

FLEET

2126948 (S/N N603211)

Primary Diesel Engine

DECOMMENDATION	T		N 4 - 41- 1	1597A1	(2	10-4-	11:-4
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		PCA0116238	PCA0108109	PCA0102040 25 Jul 2023
	Sample Date Machine Age	mle	Client Info		18 Mar 2024 152045	14 Nov 2023 152045	0
	Oil Age	mls	Client Info		152045	40000	0
	Filter Age	mls mls	Client Info		0	40000	0
	Oil Changed	11113	Client Info		Changed	Changed	N/A
	Filter Changed		Client Info		Changed	Changed	N/A
	Sample Status		Olletti IIIIO		ABNORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	21	22	23
Exhaust valve wear is indicated.	Chromium	ppm	ASTM D5185m	>20	0	<1	<1
	Nickel	ppm	ASTM D5185m	>2	<u> </u>	4	2
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		2	5	4
	Lead	ppm	ASTM D5185m		0	1	1
	Copper	ppm	ASTM D5185m		14	29	49
	Tin	ppm	ASTM D5185m	>15	0	1	2
	Vanadium	ppm	ASTM D5185m	NONE	0	<1 NONE	<1 NONE
	White Metal	scalar	*Visual	NONE	NONE NONE	NONE	NONE
·	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	5	8	6
	Potassium	ppm	ASTM D5185m	>20	6	16	10
There is no indication of any contamination in the oil.	Fuel		WC Method	>6.0	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.4	0.5	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	9.5	9.7	10.0
	Sulfation	Abs/.1mm	*ASTM D7415		20.0	21.3	21.4
	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	NORML
	Odor Emulsified Water	scalar	*Visual	NORML >0.2	NORML NEG	NORML NEG	NORML NEG
<u></u>		Scalai	VISUAI	>0.2	INEG	NEG	INEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	7	2
	Boron	ppm	ASTM D5185m		0	1	<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		0	0	0
	Molybdenum	ppm	ASTM D5185m		63	62	63
	Manganese	ppm	ASTM D5185m		0	<1	<1
	Magnesium	ppm	ASTM D5185m		960	945	931
	Calcium	ppm	ASTM D5185m		1179	1082	1131
	Phosphorus	ppm	ASTM D5185m		1038	937	846
			A OTA A DELOE		1245	1225	1191
	Zinc	ppm	ASTM D5185m				
	Zinc Sulfur	ppm	ASTM D5185m		3445	2547	2679
	Zinc Sulfur Oxidation	ppm Abs/.1mm	ASTM D5185m *ASTM D7414	>25	3445 16.1	2547 17.2	2679 17.3
	Zinc Sulfur	ppm Abs/.1mm	ASTM D5185m *ASTM D7414	>25	3445	2547	2679







Certificate L2367

Laboratory Sample No.

: PCA0116238 Lab Number : 06147027 Unique Number : 10977105 Test Package : FLEET

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 12 Apr 2024 **Tested**

Diagnosed

: 15 Apr 2024 : 15 Apr 2024 - Sean Felton **PERDUE FARMS - DILLON** 2047 HWY 9 WEST DILLON, SC US 29536

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* - 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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