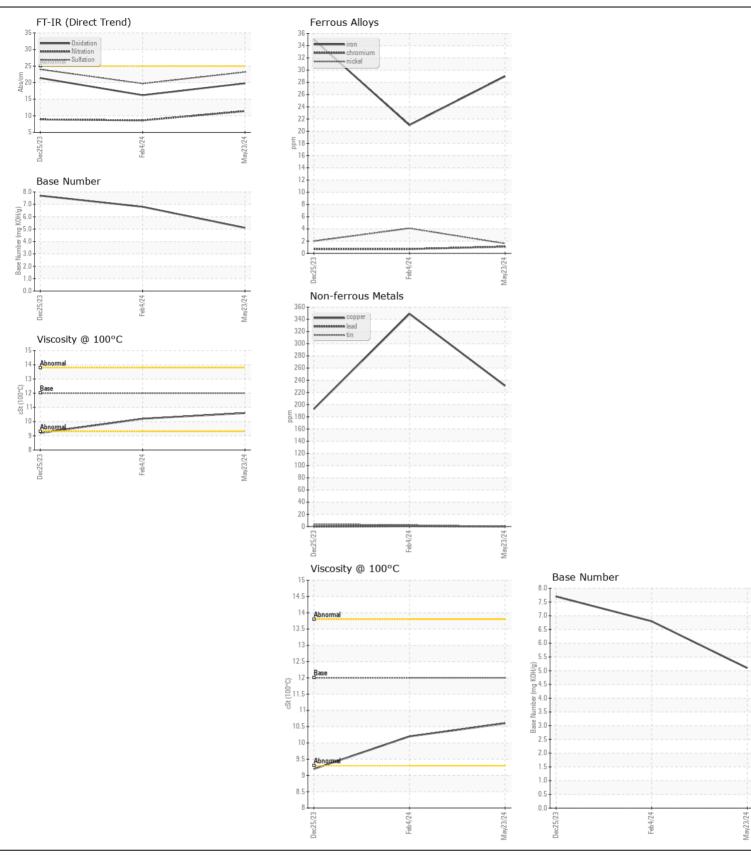
**WEAR** CONTAMINATION **FLUID CONDITION** 

**NORMAL NORMAL NORMAL** 

Machine Id 2227123

## Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		PCA0124271	PCA0114817	PCA0099544
Resample at the next service interval to monitor. Please specify the component make and model with your next sample.	Sample Date		Client Info		23 May 2024	04 Feb 2024	25 Dec 202
	Machine Age	mls	Client Info		0	39604	20000
	Oil Age	mls	Client Info		20000	19604	20000
	Filter Age	mls	Client Info		20000	19604	20000
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	ABNORMA
VEAR	Iron	ppm	ASTM D5185m	>100	29	21	35
	Chromium	ppm	ASTM D5185m		1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		2	4	2
	Titanium	ppm	ASTM D5185m		22	17	<1
	Silver	ppm	ASTM D5185m	>3	0	7	17
	Aluminum	ppm	ASTM D5185m		19	23	33
	Lead	ppm	ASTM D5185m		0	<1	0
	Copper	ppm	ASTM D5185m	>330	231	349	193
	Tin	ppm	ASTM D5185m	>15	<1	2	4
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	nnm	ASTM D5185m	>25	7	17	<u>^</u> 57
CONTAMINATION	Potassium	ppm	ASTM D5185m		44	57	85
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.	Fuel	ppiii	WC Method		<1.0	<1.0	0.2
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	70.L	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.4	0.2	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	11.4	8.6	8.9
	Sulfation	Abs/.1mm	*ASTM D7415		23.2	19.7	24.0
	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
	<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Cadium		ACTM DE10Em		_		4
-LUID CONDITION	Sodium Boron	ppm	ASTM D5185m ASTM D5185m	0	5 0	0 32	4 228
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	14	0
	Molybdenum	ppm	ASTM D5185m		45	60	108
	Manganese	ppm	ASTM D5185m		1	2	4
	Magnesium	ppm	ASTM D5185m		762	745	639
	Calcium	ppm	ASTM D5185m		1336	1266	1406
	Phosphorus	ppm	ASTM D5185m		973	980	696
	Zinc	ppm	ASTM D5185m		1155	1084	817
	Sulfur	ppm	ASTM D5185m		2655	3370	2317
	Oxidation	Abs/.1mm	*ASTM D7414		19.8	16.2	21.4
	Base Number (BN)			2 2 3	5.1	6.8	7.7
	Visc @ 100°C	cSt	ASTM D445	10.00	10.6	10.2	9.2







Certificate L2367

Laboratory Sample No.

: PCA0124271 Lab Number : 06197278 Unique Number : 11059401 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 03 Jun 2024 **Tested** : 03 Jun 2024

Diagnosed : 03 Jun 2024 - Wes Davis **PERDUE FARMS - SALISBURY** 7036 ZION CHURCH ROAD

SALISBURY, MD US 21802

Contact: RICHARD O'NEAL richard.oneal@perdue.com

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. T: (410)543-3628 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (410)341-2164