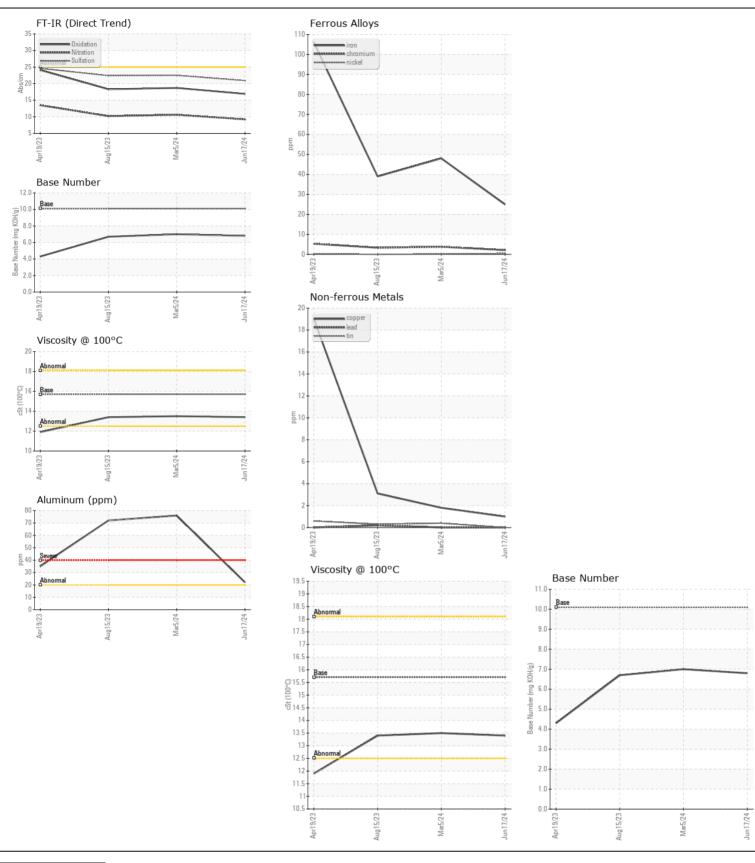
**WEAR** CONTAMINATION **FLUID CONDITION** 

**NORMAL NORMAL NORMAL** 

Machine Id 113870

Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info	Limitorion	IL0032943	IL0032978	IL0027467
	Sample Date		Client Info		17 Jun 2024	05 Mar 2024	15 Aug 202
	Machine Age	mls	Client Info		83943	67224	45274
	Oil Age	mls	Client Info		16719	21950	18138
	Filter Age	mls	Client Info		16719	21950	18138
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>90	25	48	39
	Chromium	ppm	ASTM D5185m		2	4	3
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		- <1	<1	0
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		22	76	72
	Lead	ppm	ASTM D5185m		0	0	<1
	Copper	ppm	ASTM D5185m		1	2	3
	Tin	ppm	ASTM D5185m		0	<1	<1
	Vanadium	ppm	ASTM D5185m		0	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	9	10	10
SONTAMINATION	Potassium	ppm	ASTM D5185m		46	161	165
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	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>6	0.6	1	0.6
	Nitration	Abs/cm	*ASTM D7624	>20	9.2	10.6	10.2
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.9	22.5	22.4
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		3	2	4
	Boron	ppm	ASTM D5185m	316	74	54	68
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		25	30	30
	Manganese	ppm	ASTM D5185m		<1	<1	2
	Magnesium	ppm	ASTM D5185m	24	283	288	211
	Calcium	ppm	ASTM D5185m		1998	1846	2041
	Phosphorus	ppm	ASTM D5185m	1064	1059	992	943
	Zinc	ppm	ASTM D5185m	1160	1290	1217	1190
	Sulfur	ppm	ASTM D5185m	4996	3886	3346	3786
	Oxidation	Abs/.1mm	*ASTM D7414		16.9	18.7	18.3
	Oxidation	AUS/. 1111111	7101111 27 111				
	Base Number (BN)				6.8	7.0	6.7







Certificate L2367

Laboratory Sample No.

: IL0032943 Lab Number : 06219358 Unique Number : 11097555 Test Package : FLEET

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

Diagnosed

: 25 Jun 2024 : 25 Jun 2024 - Wes Davis

: 25 Jun 2024

**IDEALEASE OF NORTHWEST WI** 611 HANSEN ROAD GREEN BAY, WI US 54304

Contact: GARY KOLTZ gkoltz@pcitrucks.com

T: (920)499-6200 F: (920)499-5332

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)