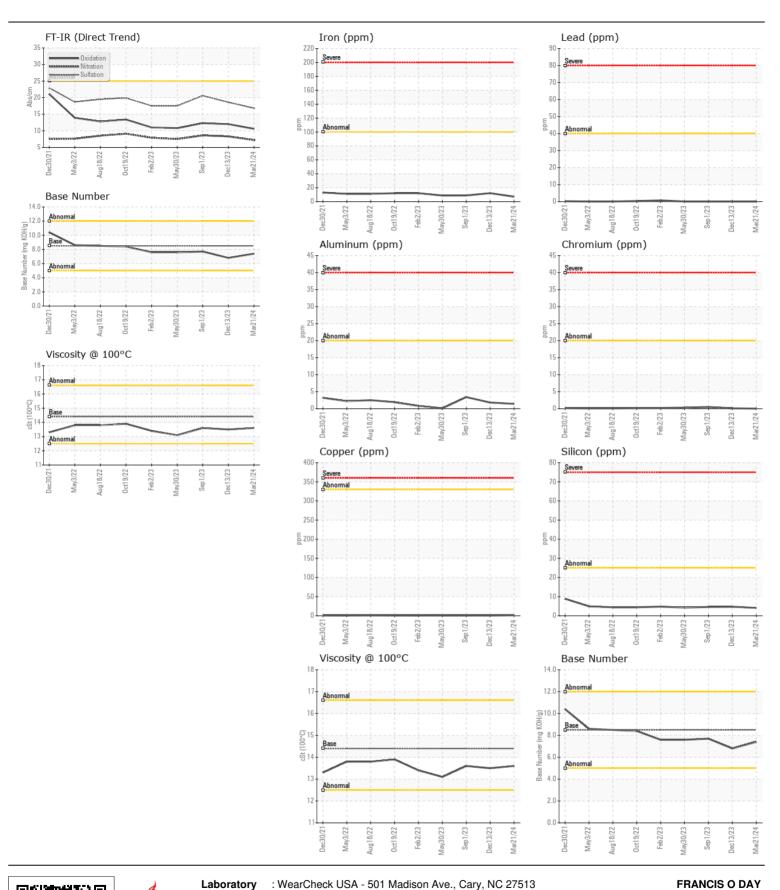
WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

Machine Id **55919**

Component
Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		DC0032817	DC0031768	DC003164
Resample at the next service interval to monitor. Please specify the component make and model with your next sample.	Sample Date		Client Info		21 Mar 2024	13 Dec 2023	01 Sep 202
	Machine Age	hrs	Client Info		6030	5893	5570
	Oil Age	hrs	Client Info		200	300	200
	Filter Age	hrs	Client Info		200	300	200
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		N/A	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMA
VEAR	Iron	ppm	ASTM D5185m	>100	7	12	9
	Chromium	ppm	ASTM D5185m	>20	0	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>4	0	0	0
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		1	2	3
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m	>330	2	<1	<1
	Tin	ppm	ASTM D5185m	>15	0	<1	0
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NON
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NON
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	4	5	5
OSITIAMINATION	Potassium	ppm	ASTM D5185m		0	1	2
There is no indication of any contamination in the oil.	Fuel	le le · · ·	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.2	0.4	0
	Nitration	Abs/cm	*ASTM D7624	>20	7.2	8.3	8.6
	Sulfation	Abs/.1mm	*ASTM D7415	>30	16.8	18.6	20.6
	Silt	scalar	*Visual	NONE	NONE	NONE	NONI
	Debris	scalar	*Visual	NONE	NONE	NONE	NONI
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NON
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORN
	Odor	scalar	*Visual	NORML	NORML	NORML	NORN
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
LUID CONDITION	Sodium	ppm	ASTM D5185m	>158	1	1	1
	Boron	ppm	ASTM D5185m		3	2	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	0
	Molybdenum	ppm	ASTM D5185m	100	3	2	3
	Manganese	ppm	ASTM D5185m		<1	0	<1
	Magnesium	ppm	ASTM D5185m	450	49	46	36
	Calcium	ppm	ASTM D5185m		2339	2262	2467
	Phosphorus	ppm	ASTM D5185m		955	928	920
	Zinc	ppm	ASTM D5185m	1350	1089	1121	1109
	Sulfur	ppm	ASTM D5185m	4250	4406	3689	4135
	Oxidation	Abs/.1mm	*ASTM D7414		10.6	12.0	12.3
	Base Number (BN)				7.4	6.8	7.7
	Visc @ 100°C	cSt	ASTM D445		13.6	13.5	13.6





Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : DC0032817 Lab Number : 06147055

Unique Number: 10977133

Received **Tested** Diagnosed

: 12 Apr 2024 : 15 Apr 2024

: 15 Apr 2024 - Wes Davis

14900 SOUTHLAWN LN ROCKVILLE, MD US 20850

Contact: JAMIE FORESTER

Test Package : MOB 1 (Additional Tests: TBN) 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)

T: F: