

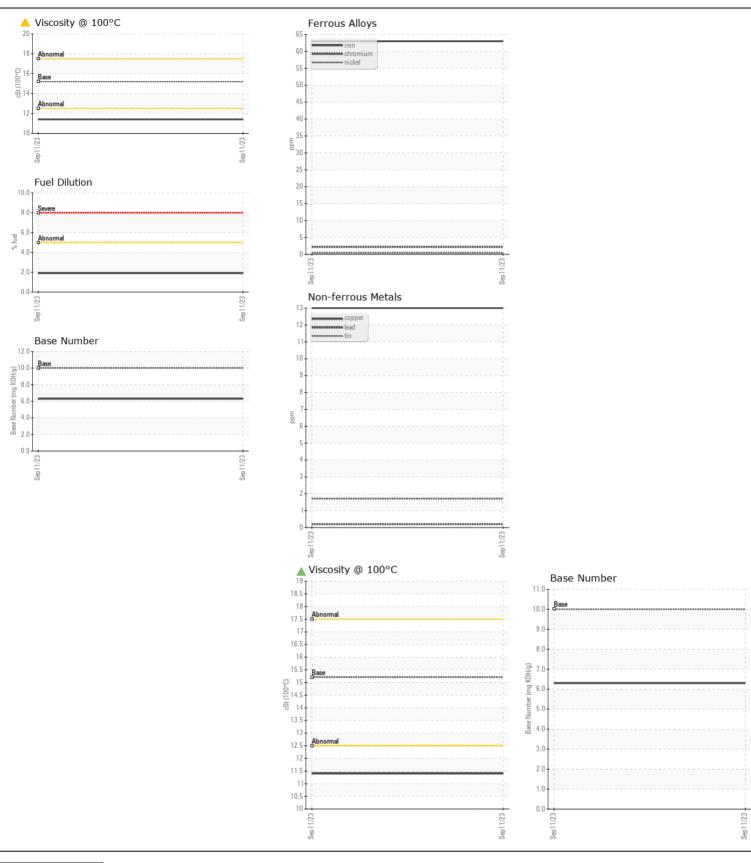
**WEAR** CONTAMINATION **FLUID CONDITION** 

**NORMAL NORMAL ATTENTION** 

## X51 (S/N NDNJ2667)

Component Diesel Engine

ECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number	0 0 1 11	Client Info	2	WC0849053		
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Date		Client Info		11 Sep 2023		
	Machine Age	hrs	Client Info		1830		
	Oil Age	hrs	Client Info		1049		
	Filter Age	hrs	Client Info		1049		
	Oil Changed	0	Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status		Ollotti IIIIo		ATTENTION		
					ATTENTION		
EAR EAR	Iron	ppm	ASTM D5185m	>100	63		
	Chromium	ppm	ASTM D5185m	>20	2		
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>4	<1		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m	>3	0		
	Aluminum	ppm	ASTM D5185m	>20	13		
	Lead	ppm	ASTM D5185m	>40	<1		
	Copper	ppm	ASTM D5185m		13		
	Tin	ppm	ASTM D5185m		2		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	9		
First content or elicible. There is no indication of any content or in	Potassium	ppm	ASTM D5185m	>20	25		
Fuel content negligible. There is no indication of any contamination in the oil.	Fuel	%	ASTM D3524	>5	1.9		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.1		
	Nitration	Abs/cm	*ASTM D7624	>20	14.0		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	27.3		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG		
LUD AGNIDITION							
LUID CONDITION	Sodium	ppm	ASTM D5185m		4		
The oil viscosity is lower than normal. The BN result indicates that	Boron	ppm	ASTM D5185m		21		
there is suitable alkalinity remaining in the oil. Confirm oil type.	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		69		
	Manganese	ppm	ASTM D5185m		5		
	Magnesium	ppm	ASTM D5185m		674		
	Calcium	ppm	ASTM D5185m		1397		
	Phosphorus	ppm	ASTM D5185m		704		
	Zinc	ppm	ASTM D5185m		894		
	Sulfur	ppm	ASTM D5185m		2603		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	26.6		
					6.3		







Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0849053 Lab Number : 05955784

Received **Tested** Unique Number: 10656997

: 19 Sep 2023 Diagnosed

: 21 Sep 2023 : 21 Sep 2023 - Jonathan Hester Test Package: CONST (Additional Tests: FuelDilution, PercentFuel, TBN)

**TULLY CONSTRUCTION BOULEVARD** 127-50 NORTHERN BLVD FLUSHING, NY US 11368

Contact: MATT FLYNN Mflynn@tullyconstruction.com T: (917)299-4960

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

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

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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