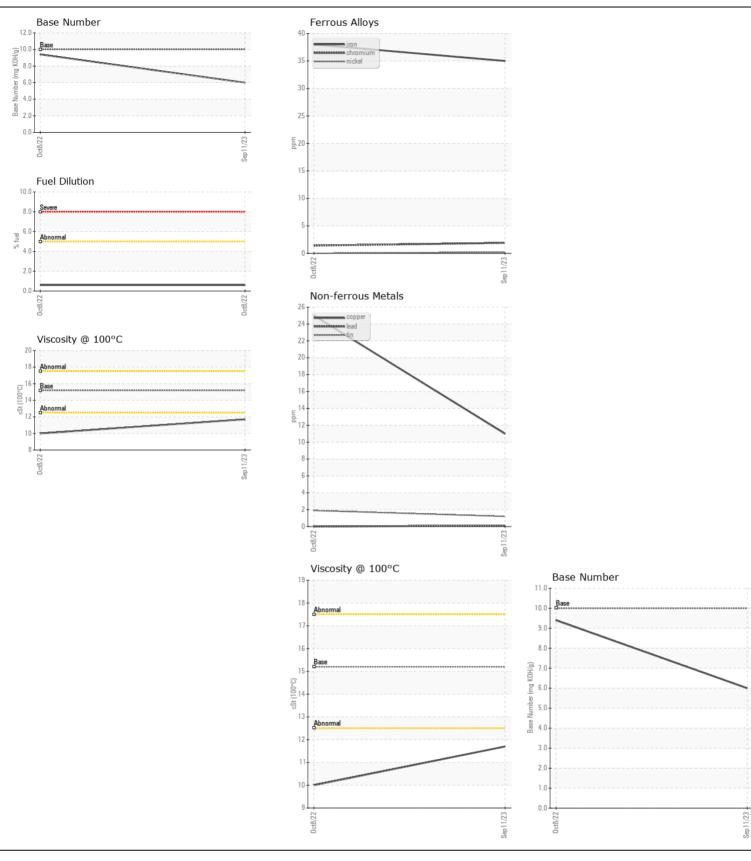
WEAR CONTAMINATION **FLUID CONDITION** **NORMAL NORMAL NORMAL**

Machine Id X50 (S/N NHNM1838) Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
IEGGINNENDATION	Sample Number	00.01	Client Info	Little	WC0849054	WC0731571	
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Date		Client Info		11 Sep 2023	08 Oct 2022	
	Machine Age	hrs	Client Info		2021	834	
	Oil Age	hrs	Client Info		1187	834	
	Filter Age	hrs	Client Info		1187	834	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	NORMAL	
VEAR	Iron	nnm	ASTM D5185m	>100	35	38	
VEAN	Chromium	ppm	ASTM D5185m		2	30	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	0	
	Titanium	ppm	ASTM D5185m	>4	0	<1	
	Silver	ppm	ASTM D5185m	. 2	0	0	
	Aluminum	ppm	ASTM D5185m		16	12	
	Lead	ppm	ASTM D5185m		<1	0	
	Copper	ppm	ASTM D5185m		11	25	
	Tin	ppm	ASTM D5185m		1	2	
	Vanadium	ppm	ASTM D5185m	710	0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
			v 100aa1				
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	8	13	
	Potassium	ppm	ASTM D5185m	>20	38	35	
There is no indication of any contamination in the oil.	Fuel	%	ASTM D3524	>5	<1.0	0.6	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0	0.4	
	Nitration	Abs/cm	*ASTM D7624	>20	13.3	10.0	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	26.6	24.1	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
LUID CONDITION	Sodium	ppm	ASTM D5185m		4	5	
LOID CONDITION	Boron	ppm	ASTM D5185m	29	22	36	
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	3	
	Molybdenum	ppm	ASTM D5185m		61	45	
	Manganese	ppm	ASTM D5185m	0.0	2	6	
	Magnesium	ppm	ASTM D5185m	18	730	500	
	Calcium	ppm	ASTM D5185m	2936	1299	1530	
	Phosphorus	ppm	ASTM D5185m		669	712	
	Zinc	ppm		1095	885	879	
	Sulfur	ppm	ASTM D5185m		2807	2503	
	Oxidation	Abs/.1mm	*ASTM D7414		25.1	22.9	
	Base Number (BN)				6.0	9.4	
	Visc @ 100°C	cSt	ASTM D445		11.7	10.0	







Laboratory

Sample No.

Lab Number : 05955783 Unique Number: 10656996

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0849054

Test Package : CONST (Additional Tests: FuelDilution, TBN)

Received : 19 Sep 2023 **Tested** Diagnosed

: 21 Sep 2023 : 21 Sep 2023 - Jonathan Hester

TULLY CONSTRUCTION BOULEVARD 127-50 NORTHERN BLVD FLUSHING, NY

US 11368 Contact: MATT FLYNN Mflynn@tullyconstruction.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.

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

Report Id: TULFLUNY [WUSCAR] 05955783 (Generated: 03/11/2024 09:39:11) Rev: 1

Contact/Location: MATT FLYNN - TULFLUNY

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