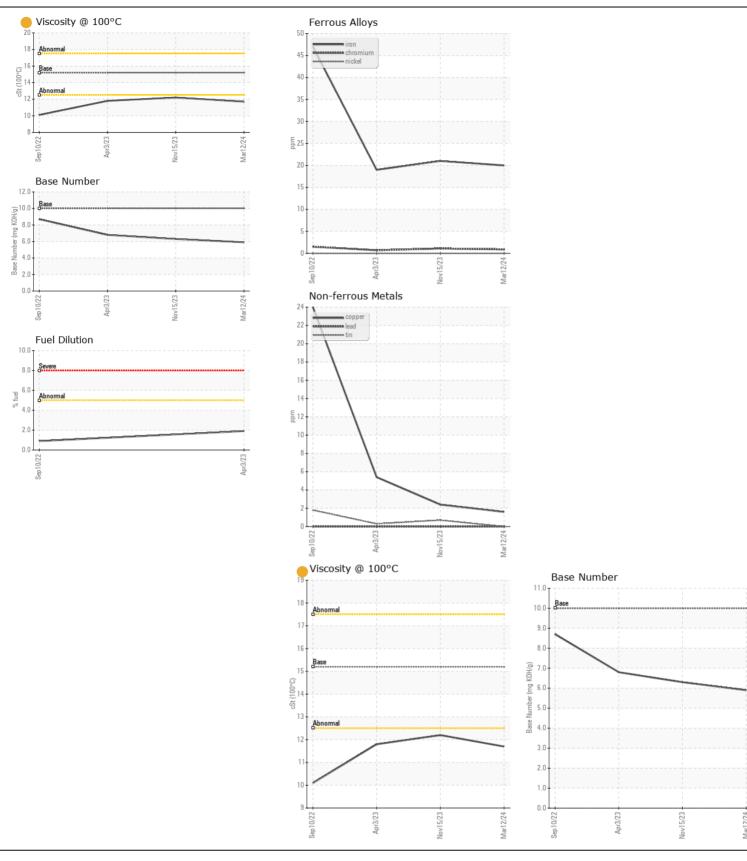
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL ATTENTION

Machine Id **X53 (S/N NJ2642)**

Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		WC0885548	WC0849037	WC079308
	Sample Date		Client Info		12 Mar 2024	15 Nov 2023	03 Apr 202
	Machine Age	hrs	Client Info		4464	3607	1838
	Oil Age	hrs	Client Info		857	887	1007
	Filter Age	hrs	Client Info		857	887	1007
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ATTENTION	NORMAL	ATTENTIO
/EAR	Iron	ppm	ASTM D5185m	>100	20	21	19
	Chromium	ppm	ASTM D5185m	>20	<1	1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>4	0	0	0
	Titanium	ppm	ASTM D5185m		<1	<1	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		4	5	4
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m		2	2	5
	Tin	ppm	ASTM D5185m		0	<1	<1
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
ONTAMINATION	Silicon	ppm	ASTM D5185m	>25	4	5	4
	Potassium	ppm	ASTM D5185m	>20	2	4	6
There is no indication of any contamination in the oil.	Fuel	%	ASTM D3524	>5	<1.0	<1.0	1.9
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.6	0.6	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	11.1	11.4	11.1
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.9	22.1	21.3
	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
LUID CONDITION	Sodium	ppm	ASTM D5185m		3	5	4
the cil vice seity is leavey then permed. The DNI was all indicates the st	Boron	ppm	ASTM D5185m		25	23	35
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		62	91	57
	Manganese	ppm	ASTM D5185m		<1	<1	2
	Magnesium	ppm	ASTM D5185m		642	689	760
	Calcium	ppm	ASTM D5185m		1076	1199	1256
	Phosphorus	ppm	ASTM D5185m		671	640	688
	Zinc	ppm	ASTM D5185m		786	827	830
	Sulfur	ppm	ASTM D5185m		2758	2193	2843
	Oxidation	Abs/.1mm	*ASTM D7414	>25	20.4	21.5	20.8
	Oxidation	7100/.1111111			5.9	6.3	6.8







Report Id: TULFLUNY [WUSCAR] 06122996 (Generated: 03/20/2024 17:18:52) Rev: 1

Laboratory Sample No.

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

Lab Number : 06122996

: WC0885548

Unique Number: 10937147

Diagnosed

: 20 Mar 2024 - Jonathan Hester Test Package : CONST (Additional Tests: FuelDilution, TBN) To discuss this sample report, contact Customer Service at 1-800-237-1369.

Received

Tested

: 19 Mar 2024

: 20 Mar 2024

* - 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)

TULLY CONSTRUCTION BOULEVARD

127-50 NORTHERN BLVD FLUSHING, NY

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