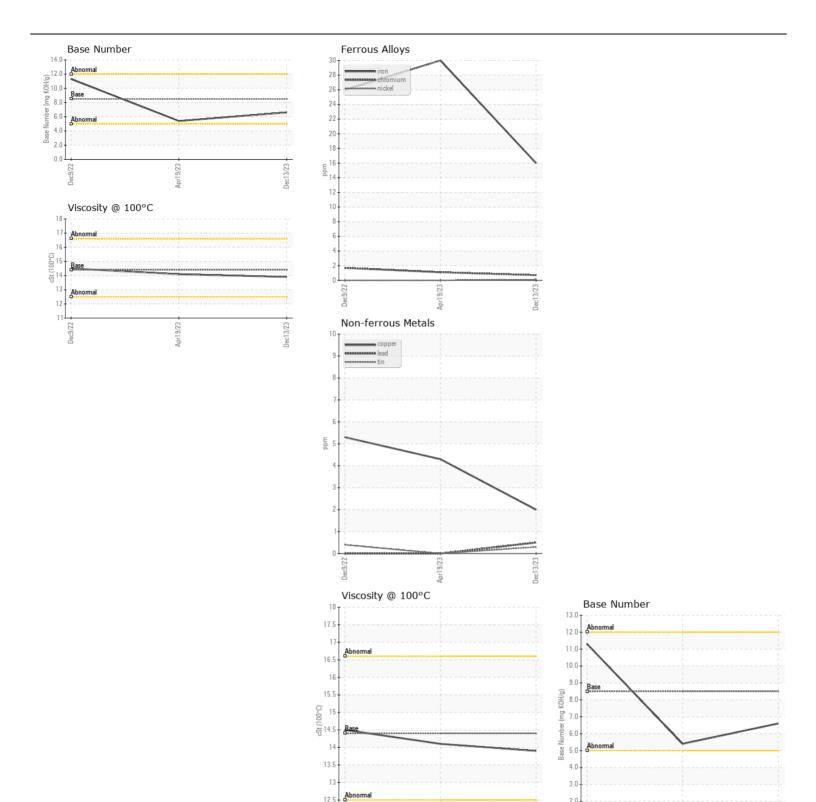


WEAR CONTAMINATION **FLUID CONDITION** NORMAL **NORMAL NORMAL**

Machine Id 13117

Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0841986	WC0742077	WC074244
Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Date		Client Info		13 Dec 2023	19 Apr 2023	09 Dec 202
	Machine Age	mls	Client Info		624321	522632	459041
	Oil Age	mls	Client Info		0	0	0
	Filter Age	mls	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
VEAR	Iron	ppm	ASTM D5185m	>100	16	30	26
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1	1	2
	Nickel	ppm	ASTM D5185m	>4	<1	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	4	5	6
	Lead	ppm	ASTM D5185m	>40	<1	0	0
	Copper	ppm	ASTM D5185m	>330	2	4	5
	Tin	ppm	ASTM D5185m	>15	<1	0	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	10	8	11
	Potassium	ppm	ASTM D5185m	>20	3	4	5
There is no indication of any contamination in the oil.	Fuel		WC Method	>5	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	1	1.1	1.9
	Nitration	Abs/cm	*ASTM D7624	>20	10.4	10.2	11.7
	Sulfation	Abs/.1mm	*ASTM D7415		23.9	22.6	24.0
	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
<u></u>	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
LUID CONDITION	Sodium	ppm	ASTM D5185m	>158	<1	1	2
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m	250	5	0	6
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m	100	66	69	68
	Manganese	ppm	ASTM D5185m		<1	1	<1
	Magnesium	ppm	ASTM D5185m		997	1095	1028
	Calcium	ppm	ASTM D5185m	3000	1150	1246	1201
	Phosphorus	ppm	ASTM D5185m		1071	1087	1085
	Zinc	ppm	ASTM D5185m		1351	1426	1337
	Sulfur Oxidation	ppm Abo/ 1mm	*ASTM D7414		2827	3105	3174
	Base Number (BN)	Abs/.1mm			20.0 6.6	20.0 5.4	17.7 11.3
	Dase Mulliper (BIN)	iliy NON/g	49 I IVI DZ090	0.5	0.0	5.4	11.3







Laboratory Sample No. Lab Number **Unique Number**

: WC0841986 : 06064890 : 10836272 Test Package : FLEET

11.5

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 18 Jan 2024 : 19 Jan 2024 Diagnosed

Diagnostician : Wes Davis 0.0

Dec13/23 -

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)

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