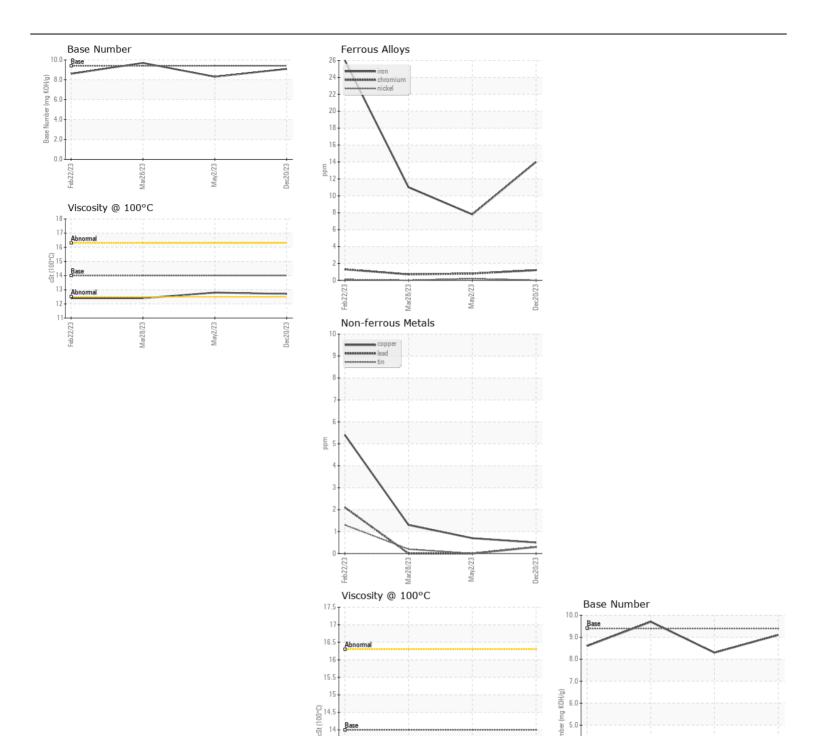
WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

Machine Id **09.104** []

Component Diesel Engine

ECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WC0862546	WC0789838	WC074171
	Sample Date		Client Info		20 Dec 2023	02 May 2023	28 Mar 202
	Machine Age	mls	Client Info		80212	43511	1071
	Oil Age	mls	Client Info		36701	1071	260
	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	ATTENTIC
/EAR	Iron	ppm	ASTM D5185m	>90	14	8	11
	Chromium	ppm	ASTM D5185m		1	<1	<1
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m		0	<1	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		18	9	11
	Lead	ppm	ASTM D5185m		<1	0	0
	Copper	ppm	ASTM D5185m	>330	<1	<1	1
	Tin	ppm	ASTM D5185m	>15	<1	0	<1
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONI
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NON
ONTAMINATION	Silicon	ppm	ASTM D5185m	>25	6	6	8
ONTAMINATION	Potassium	ppm	ASTM D5185m		37	21	26
There is no indication of any contamination in the oil.	Fuel	ррпп	WC Method	>3.0	<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	70.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	\6	0.3	0.3	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	7.4	6.6	7.2
	Sulfation	Abs/.1mm	*ASTM D7415		22.7	20.8	22.7
	Silt	scalar	*Visual	NONE	NONE	NONE	NONI
	Debris	scalar	*Visual	NONE	NONE	NONE	NONI
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONI
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORN
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
LUID CONDITION	O a di		ACTA DE10E		• • • • • • • • • • • • • • • • • • • •		
LUID CONDITION	Sodium	ppm	ASTM D5185m	0	3	0	3
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		55	47	58
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m	U	41	39	41
	Manganese	ppm	ASTM D5185m	0	<1 504	<1	1 517
	Magnesium Calcium	ppm	ASTM D5185m ASTM D5185m	U	524 1607	512	517
		ppm			1607	1770	1858
	Phosphorus	ppm	ASTM D5185m		785	771	795
	Zinc	ppm	ASTM D5185m		927	953	952
	Sulfur Oxidation	ppm Abo/ 1mm	*ASTM D5185m	- 2F	2520	3141	2821
	Base Number (BN)	Abs/.1mm			21.1 9.1	19.8 8.3	20.0
	Pase Millimet (RM)	THE NUMBER	HO IIVIIIZAYA	94	I	0.3	9/







Laboratory Sample No. Lab Number

Unique Number

: WC0862546 : 06065340 : 10836722

13

12.

11.5

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

Mar28/23

: 20 Jan 2024 Test Package : CONST (Additional Tests: TBN)

Diagnostician : Wes Davis

: 19 Jan 2024

May2/23

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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F: x: