

WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL NORMAL

Machine Id

1962 Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
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 Number		Client Info		WC0887570	HRE0000100	WC084496
	Sample Date		Client Info		30 May 2024	26 Mar 2024	28 Dec 202
	Machine Age	mls	Client Info		792206	75115	0
	Oil Age	mls	Client Info		0	6000	0
	Filter Age	mls	Client Info		0	6000	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	11	12	10
WEAT	Chromium	ppm	ASTM D5185m		0	1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	1	<1
	Titanium	ppm	ASTM D5185m		<1	<1	0
	Silver	ppm	ASTM D5185m	\3	0	0	0
	Aluminum	ppm	ASTM D5185m		2	3	2
	Lead	ppm	ASTM D5185m		0	<1	0
	Copper	ppm	ASTM D5185m		0	1	<1
	Tin	ppm	ASTM D5185m		0	<1	0
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon		ASTM D5185m	. 05	45	01	10
CONTAMINATION	Potassium	ppm	ASTM D5185m		15 0	21 2	18
There is no indication of any contamination in the oil.	Fuel	ppm	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		< 1.0 NEG	NEG	NEG
	Glycol		WC Method	>0.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	~ 3	0.1	0	0
	Nitration	Abs/cm	*ASTM D7624	>20	9.4	10.8	10.4
	Sulfation	Abs/.1mm	*ASTM D7024		19.5	21.5	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		*Visual	>0.2	NEG	NEG	NEG
LUID CONDITION	Sodium	ppm	ASTM D5185m		<1	0	0
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		34	34	30
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	<1	4
	Molybdenum	ppm	ASTM D5185m	100	155	188	210
	Manganese	ppm	ASTM D5185m		18	5	3
	Magnesium	ppm	ASTM D5185m		609	558	617
	Calcium	ppm	ASTM D5185m		1494	1194	1180
	Phosphorus	ppm	ASTM D5185m		750	629	594
	Zinc	ppm	ASTM D5185m		930	715	697
	Sulfur	ppm	ASTM D5185m		3392	2672	2857
	Oxidation	Abs/.1mm	*ASTM D7414		14.8 3.6	15.3 4.4	14.8 4.6
	Base Number (BN)						







Certificate L2367

Laboratory Sample No.

Lab Number : 06213243 Unique Number : 11086107

: WC0887570 Test Package : FLEET

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 18 Jun 2024 **Tested** : 19 Jun 2024

Diagnosed

: 19 Jun 2024 - Wes Davis

TOWN OF CHAPEL HILL 6900 MILLHOUSE RD CHAPEL HILL, NC

US 27516 Contact: Lisa DePasqua

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* - 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)