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

Machine Id 1358

Component Diesel Engine

DECOMMENDATION.						·	
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.	Sample Number		Client Info		WC0870704		
	Sample Date	.aala	Client Info		03 Jan 2024	15 Dec 2022	
	Machine Age	mls	Client Info		233911	214159	
	Oil Age	mls	Client Info		0	0	
	Filter Age	mls	Client Info		0 Nat Ohan ad	0 Not Changd	
	Oil Changed		Client Info		Not Change	J	
	Filter Changed Sample Status		Client Info		Not Changd NORMAL	Not Changd NORMAL	
					NONWAL	INOTTIVIAL	
WEAR	Iron	ppm	ASTM D5185m	>100	11	13	
	Chromium	ppm	ASTM D5185m	>20	<1	<1	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>4	<1	<1	
	Titanium	ppm	ASTM D5185m		0	0	
	Silver	ppm	ASTM D5185m	>3	0	0	
	Aluminum	ppm	ASTM D5185m	>20	4	3	
	Lead	ppm	ASTM D5185m	>40	0	0	
	Copper	ppm	ASTM D5185m	>330	<1	<1	
	Tin	ppm	ASTM D5185m	>15	<1	0	
	Vanadium	ppm	ASTM D5185m		0	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Ciliana		ACTM DE105	05	4	_	
CONTAMINATION	Silicon	ppm	ASTM D5185m		4 2	5 3	
There is no indication of any contamination in the oil.	Potassium Fuel	ppm	ASTM D5185m WC Method	>5		<1.0	
	Water		WC Method		<1.0 NEG	NEG	
	Glycol		WC Method	>0.2	NEG	NEG	
	Soot %	%	*ASTM D7844	~3	0.4	0.4	
	Nitration	Abs/cm	*ASTM D7624	>20	10.1	10.2	
	Sulfation	Abs/.1mm	*ASTM D7415		19.8	19.7	
	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		*Visual	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	3	
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		34	30	
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		4	1	
	Molybdenum	ppm	ASTM D5185m	100	86	76	
	Manganese	ppm	ASTM D5185m	1=6	0	<1	
	Magnesium	ppm	ASTM D5185m		111	78	
	Calcium	ppm	ASTM D5185m		2007	2059	
	Phosphorus	ppm	ASTM D5185m		963	993	
	Zinc	ppm	ASTM D5185m		1197	1180	
	Sulfur	ppm	ASTM D5185m		3553	3356	
	Oxidation	Abs/.1mm	*ASTM D7414		16.1	15.2	
	Base Number (BN)	mg KUH/g	ASTIVI D2896	8.5	6.1	6.8	





Certificate L2367

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

: WC0870704 : 06059851 : 10831233

Recieved : 12 Jan 2024 Diagnosed : 15 Jan 2024 Diagnostician : Wes Davis

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

Test Package : MOB 1 (Additional Tests: TBN) 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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