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

**NORMAL NORMAL ATTENTION** 

Machine Id 30219

Component Diesel Engine

ECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		WC0882595		
	Sample Date		Client Info		02 Feb 2024		
	Machine Age	hrs	Client Info		242		
	Oil Age	hrs	Client Info		242		
	Filter Age	hrs	Client Info		242		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ATTENTION		
/EAR	Iron	nnm	ASTM D5185m	>100	31		
WLAN	Chromium	ppm	ASTM D5185m		0		
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m	>4	0		
	Silver	ppm	ASTM D5185m	. 2	0		
	Aluminum	ppm					
		ppm	ASTM D5185m		3		
	Lead	ppm	ASTM D5185m		0		
	Copper	ppm	ASTM D5185m		13		
	Tin	ppm	ASTM D5185m	>15	<1		
	Vanadium	ppm	ASTM D5185m	NONE	0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
ONTAMINATION	Silicon	ppm	ASTM D5185m	>25	49		
Fuel content negligible. There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	2		
	Fuel	%	ASTM D3524	>5	1.5		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.2		
	Nitration	Abs/cm	*ASTM D7624	>20	7.4		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	16.7		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG		
LUD CONDITION	Ca divers		ACTM DE105	150	45		
LUID CONDITION	Sodium	ppm	ASTM D5185m ASTM D5185m		15 114		
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Boron	ppm					
	Barium	ppm	ASTM D5185m		12 94		
	Monganona	ppm	ASTM D5185m	100	84		
	Manganese	ppm	ASTM D5185m	150	1		
	Magnesium	ppm	ASTM D5185m		241		
	Calcium	ppm	ASTM D5185m		3429		
	Phosphorus	ppm	ASTM D5185m		1069		
	Zinc	ppm	ASTM D5185m		1325		
	Sulfur	ppm	ASTM D5185m		5782		
	Oxidation Base Number (BN)	Abs/.1mm	*ASTM D7414 ASTM D2896		11.5 11.7		
		ma KALIa	V C I V I I J J J J J J J J J J J J J J J J	8 6	117		







Certificate L2367

Laboratory Sample No.

Lab Number : 06085587

Unique Number : 10873032

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0882595 Received **Tested** 

Diagnosed

: 14 Feb 2024 - Jonathan Hester Test Package: CONST (Additional Tests: FuelDilution, PercentFuel, TBN)

: 12 Feb 2024

: 14 Feb 2024

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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