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

**NORMAL NORMAL ATTENTION** 

Machine Id

## **CLEAN BURN HE-SHOP**

Component
Diesel Engine

DIESEL ENGINE OIL SAE 15W40 ( GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WC0875422		
	Sample Date		Client Info		17 Apr 2024		
	Machine Age	hrs	Client Info		0		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		N/A		
	Filter Changed		Client Info		N/A		
	Sample Status				ATTENTION		
WEAR	Iron	ppm	ASTM D5185m	>100	32		
	Chromium	ppm	ASTM D5185m		<1		
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		1		
	Titanium	ppm	ASTM D5185m	7 7	<1		
	Silver	ppm	ASTM D5185m	<b>\3</b>	<1		
	Aluminum	ppm	ASTM D5185m		4		
	Lead	ppm	ASTM D5185m		<1		
	Copper	ppm	ASTM D5185m		15		
	Tin	ppm	ASTM D5185m		<1		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	0.11.		AOTA DEADE	05			
	Silicon	ppm	ASTM D5185m		6		
Fuel content negligible. There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		8		
	Fuel	%	ASTM D3524		0.4		
	Water		WC Method	>0.2	NEG		
	Glycol	0/	WC Method	0	NEG		
	Soot %	%	*ASTM D7844		0.4		
	Nitration	Abs/cm	*ASTM D7624	>20	9.1		
	Sulfation	Abs/.1mm	*ASTM D7415		22.6		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE NORML		
	Appearance Odor	scalar	*Visual	NORML	-		
	Emulsified Water	scalar	*Visual	NORML	NORML NEG		
<u></u>	water	Scalar	visuai	>0.2	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>158	9		
	Boron	ppm	ASTM D5185m	250	23		
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Barium	ppm	ASTM D5185m	10	0		
	Molybdenum	ppm	ASTM D5185m	100	33		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m	450	240		
	Calcium	ppm	ASTM D5185m	3000	1871		
	Phosphorus	ppm	ASTM D5185m	1150	812		
	Zinc	ppm	ASTM D5185m		1008		
	Sulfur	ppm	ASTM D5185m		3198		
	Oxidation	Abs/.1mm	*ASTM D7414		18.8		
	Base Number (BN)		ASTM D2896		5.2		
		0 - 0	ASTM D445				







Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0875422

Lab Number : 06155587 Unique Number : 10991010

**Tested** Diagnosed

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

: 25 Apr 2024 : 25 Apr 2024 - Don Baldridge Test Package: MOB 1 (Additional Tests: FuelDilution, PercentFuel, TBN)

: 22 Apr 2024

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Received

1519 CALHOUN ST TRENTON, NJ US 08638 Contact: GUS CLAROS

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Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)