WEAR CONTAMINATION **FLUID CONDITION**

NORMAL **NORMAL ATTENTION**

Machine Id 20597

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		WC0936309		
	Sample Date		Client Info		04 May 2024		
	Machine Age	mls	Client Info		24150		
	Oil Age	mls	Client Info		0		
	Filter Age	mls	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ATTENTION		
/EAR	Iron	ppm	ASTM D5185m	>100	74		
	Chromium	ppm	ASTM D5185m	>20	2		
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m	>4	1		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m	>3	2		
	Aluminum	ppm	ASTM D5185m	>20	28		
	Lead	ppm	ASTM D5185m		3		
	Copper	ppm	ASTM D5185m	>330	35		
	Tin	ppm	ASTM D5185m		4		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
ONTAMINATION	Silicon	ppm	ASTM D5185m	>25	51		
	Potassium	ppm	ASTM D5185m	>20	112		
Fuel content negligible. There is no indication of any contamination in the oil.	Fuel	%	ASTM D3524	>5	0.4		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.3		
	Nitration	Abs/cm	*ASTM D7624	>20	8.1		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.4		
	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		
	Emulsified Water	scalar	*Visual	>0.2	NEG		
UID CONDITION	Sodium	ppm	ASTM D5185m	>158	5		
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	ASTM D5185m		123		
	Barium	ppm	ASTM D5185m	10	4		
	Molybdenum	ppm	ASTM D5185m		91		
	Manganese	ppm	ASTM D5185m		7		
	Magnesium	ppm	ASTM D5185m	450	645		
	Calcium	ppm	ASTM D5185m	3000	2478		
	Phosphorus	ppm	ASTM D5185m	1150	1315		
	Zinc	ppm	ASTM D5185m	1350	1776		
	Sulfur	ppm	ASTM D5185m		4608		
	Oxidation	Abs/.1mm	*ASTM D7414		19.2		
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	7.1		
	Visc @ 100°C	cSt	ASTM D445		11.3		







Certificate L2367

Laboratory Sample No.

Lab Number : 06190043 Unique Number : 11046795

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0936309

Received **Tested** Diagnosed **Test Package**: FLEET (Additional Tests: FuelDilution, PercentFuel)

: 30 May 2024 : 30 May 2024 - Jonathan Hester

: 23 May 2024

SALEM NATIONALEASE CORPORATION 198 PARK PLAZA DRIVE WINSTON SALEM, NC

US 27105 Contact: Audrey Hopkins

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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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