WEAR
CONTAMINATION
FLUID CONDITION

NORMAL NORMAL ATTENTION

Machine Id **20607**

Component Diesel Engine

DIESEL ENGINE OIL SAE 15W40 (--- GAL)

DIESEL ENGINE OIL SAE 15W40 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0925978		
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Date		Client Info		22 May 2024		
	Machine Age	mls	Client Info		88201		
	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		
WEAR	Iron	ppm	ASTM D5185m	>100	16		
WE/III	Chromium	ppm	ASTM D5185m		<1		
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1		
	Titanium	ppm	ASTM D5185m	7	20		
	Silver		ASTM D5185m	~3	<1		
	Aluminum	ppm ppm	ASTM D5185m		6		
	Lead		ASTM D5185m		2		
	Copper	ppm	ASTM D5185m		4		
	Copper	ppm	ASTM D5185m		1		
	Vanadium	ppm	ASTM D5185m	>10	l <1		
	White Metal	ppm	*Visual	NONE	NONE		
		scalar					
<u></u>	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	9		
Fuel content negligible. There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	17		
	Fuel	%	ASTM D3524	>5	0.3		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.2		
	Nitration	Abs/cm	*ASTM D7624	>20	9.2		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.1		
	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		
ELUID CONDITION	O!'		AOTA DE CO	450			
FLUID CONDITION	Sodium	ppm	ASTM D5185m		3		
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		20		
	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m	100	43		
	Manganese	ppm	ASTM D5185m		1		
	Magnesium	ppm	ASTM D5185m		752		
	Calcium	ppm	ASTM D5185m		1450		
			ASTM D5185m	1150	1089		
	Phosphorus	ppm					
	Phosphorus Zinc	ppm	ASTM D5185m	1350	1297		
	Phosphorus Zinc Sulfur	ppm	ASTM D5185m ASTM D5185m	1350 4250	3891		
	Phosphorus Zinc Sulfur Oxidation	ppm ppm Abs/.1mm	ASTM D5185m ASTM D5185m *ASTM D7414	1350 4250 >25	3891 17.5		
	Phosphorus Zinc Sulfur	ppm ppm Abs/.1mm	ASTM D5185m ASTM D5185m	1350 4250 >25 8.5	3891		







Certificate L2367

Laboratory Sample No.

: WC0925978 Lab Number : 06217542 Unique Number : 11090406

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

: 21 Jun 2024 Diagnosed **Test Package**: FLEET (Additional Tests: FuelDilution, PercentFuel)

: 26 Jun 2024 : 26 Jun 2024 - Jonathan Hester

SALEM NATIONALEASE CORPORATION 198 PARK PLAZA DRIVE WINSTON SALEM, NC

US 27105 Contact: Audrey Hopkins Audrey.Hopkins@salemcorp.com

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.

T: (336)767-9642 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: x: