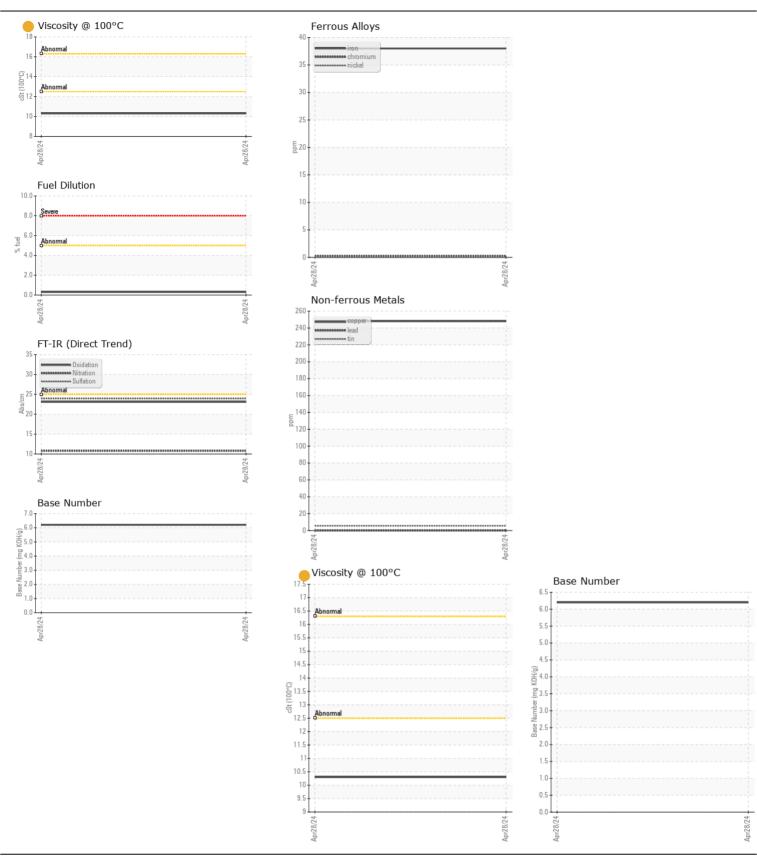
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL ABNORMAL

Machine Id

640953 Component

Diesel Engine							
MOBIL 15W40 (GAL)							
RECOMMENDATION Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0904519		
	Sample Date		Client Info		28 Apr 2024		
	Machine Age	mls	Client Info		30000		
	Oil Age	mls	Client Info		30000		
	Filter Age	mls	Client Info		30000		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
WEAR	Iron	ppm	ASTM D5185m	>100	38		
	Chromium	ppm	ASTM D5185m	>20	<1		
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m	>4	0		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m	>3	<1		
	Aluminum	ppm	ASTM D5185m	>20	20		
	Lead	ppm	ASTM D5185m	>40	0		
	Copper	ppm	ASTM D5185m	>330	248		
	Tin	ppm	ASTM D5185m	>15	6		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon		ACTM DE10Em	. 05	AE		
CONTAMINATION		ppm	ASTM D5185m ASTM D5185m		45 48		
Fuel content negligible. Elemental level of silicon (Si) above normal indicating ingress of seal material.	Potassium Fuel	ppm %	ASTM D3163111		0.3		
	Water	/0	WC Method		NEG		
	Glycol		WC Method	<i>></i> 0.∠	NEG		
	Soot %	%	*ASTM D7844	\3	0.4		
	Nitration	Abs/cm	*ASTM D7624	>20	10.8		
	Sulfation	Abs/.1mm	*ASTM D7415		23.9		
	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	0 "			440			
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>118	4		
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		148		
	Barium	ppm	ASTM D5185m		<1		
	Molybdenum	ppm	ASTM D5185m ASTM D5185m		<u> </u>		
	Manganese	ppm			4 624		
	Magnesium Calcium	ppm	ASTM D5185m ASTM D5185m		1464		
	Phosphorus	ppm	ASTM D5185m		786		
	Zinc	ppm	ASTM D5185m		899		
	Sulfur	ppm	ASTM D5185m		2494		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	23.1		
	Base Number (BN)				6.2		
	Visc @ 100°C	cSt	ASTM D445		10.3		
	-						







Certificate L2367

Laboratory Sample No.

Lab Number : 06196500

: WC0904519 Unique Number: 11058623

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

: 31 May 2024 Diagnosed Test Package: FLEET (Additional Tests: FuelDilution, PercentFuel)

: 05 Jun 2024 : 05 Jun 2024 - Don Baldridge

SALEM NATIONALEASE CORPORATION 198 PARK PLAZA DRIVE WINSTON SALEM, NC US 27105

Contact: Audrey Hopkins Audrey.Hopkins@salemcorp.com T: (336)767-9642

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)

F: x: