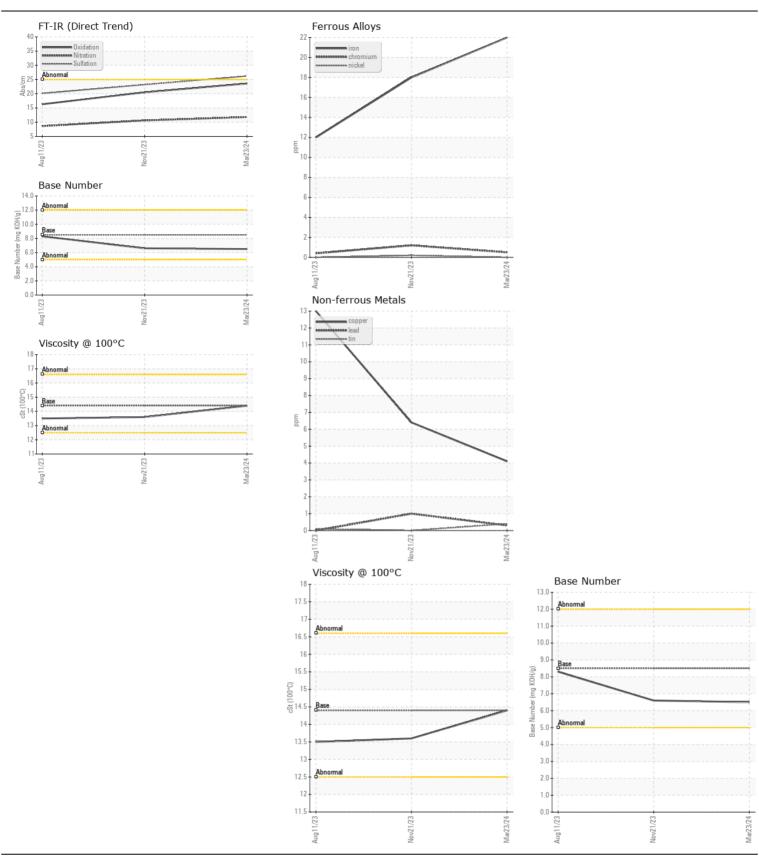
WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

Machine Id **31934**

Component
Diesel Engine

DIESEL ENGINE OIL SAE 15W40 (QTS)							
Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number	OOM	Client Info	Little	WC0829549	WC0829728	WC0829410
	Sample Date		Client Info		23 Mar 2024	21 Nov 2023	11 Aug 2023
	Machine Age	mls	Client Info		252117	210116	172603
	Oil Age	mls	Client Info		0	210116	0
	Filter Age	mls	Client Info		0	210116	0
	Oil Changed		Client Info		Changed	N/A	Changed
	Filter Changed		Client Info		Changed	N/A	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	22	18	12
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1	1	<1
	Nickel	ppm	ASTM D5185m	>4	0	<1	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	6	3	3
	Lead	ppm	ASTM D5185m		<1	1	0
	Copper	ppm	ASTM D5185m		4	6	13
	Tin	ppm	ASTM D5185m	>15	<1	0	<1
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	8	6	4
There is no indication of any contemination in the oil	Potassium	ppm	ASTM D5185m	>20	6	3	7
There is no indication of any contamination in the oil.	Fuel		WC Method	>5	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.9	0.8	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	11.8	10.6	8.6
	Sulfation	Abs/.1mm	*ASTM D7415	>30	26.2	23.2	20.1
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		3	0	<1
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		94	<1	0
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m	10	0	0	0
	Molybdenum	ppm	ASTM D5185m	100	122	63	64
	Manganese	ppm	ASTM D5185m		1	<1	<1
	Magnesium	ppm	ASTM D5185m		813	1018	1068
	Calcium	ppm	ASTM D5185m		1568	1120	1251
	Phosphorus	ppm	ASTM D5185m		860	929	1045
	Zinc	ppm	ASTM D5185m		998	1316	1354
	Sulfur	ppm	ASTM D5185m		3031	2670	3547
	Oxidation	Abs/.1mm	*ASTM D7414		23.6	20.5	16.3
	Base Number (BN)				6.5	6.6	8.3
	Visc @ 100°C	cSt	ASTM D445	14.4	14.4	13.6	13.5







Certificate L2367

Laboratory Sample No.

Lab Number : 06153721 Unique Number: 10983799

: WC0829549 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 18 Apr 2024 **Tested** : 19 Apr 2024

Diagnosed : 19 Apr 2024 - Wes Davis

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: