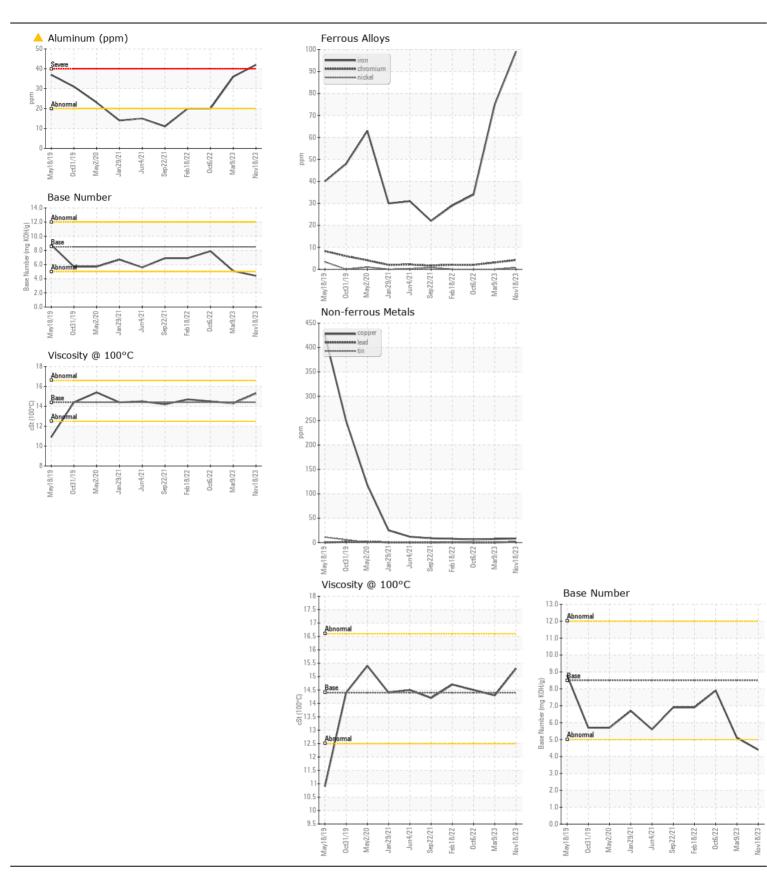
WEAR CONTAMINATION **FLUID CONDITION** **ABNORMAL** NORMAL **NORMAL**

Machine Id 51289

Component

Diesel Engine Fluid DIESEL ENGINE OIL SAE 15W40 (QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TEOCHARIETOA TION	Sample Number	OOW	Client Info	Ziiiii07 koii	WC0842163	WC0742225	WC074202
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Date		Client Info		18 Nov 2023		06 Oct 202
	Machine Age	mls	Client Info		705627	603987	542167
	Oil Age	mls	Client Info		0	0	0
	Filter Age	mls	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	ABNORMAL	NORMAL
WEAR	Iron	nnm	ASTM D5185m	> 100	99	75	34
WEAR	Iron	ppm					
The aluminum level is abnormal. All other component wear rates are normal.	Chromium	ppm	ASTM D5185m		4	3	2
	Nickel	ppm	ASTM D5185m	>4	<1	0	0
	Titanium	ppm	ASTM D5185m	0	<1	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		<u>42</u>	<u> </u>	20
	Lead	ppm	ASTM D5185m		1	0	0
	Copper	ppm	ASTM D5185m		8	7	6
	Tin	ppm	ASTM D5185m	>15	1	0	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	12	11	7
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	3	1	4
	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	1.6	1.1	0.9
	Nitration	Abs/cm	*ASTM D7624	>20	16.2	12.0	11.6
	Sulfation	Abs/.1mm	*ASTM D7415	>30	31.5	24.4	25.4
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	nnm	ASTM D5185m	<u>_15</u> Ω	2	2	0
LOID CONDITION	Boron	ppm	ASTM D5185m		3	0	0
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm			69		
	,	ppm	ASTM D5185m ASTM D5185m	100		70	70 <1
	Manganese	ppm		150	2	2	984
	Magnesium Calcium	ppm	ASTM D5185m ASTM D5185m		1067	1092	
		ppm		3000	1185	1241	1164
	Phosphorus	ppm	ASTM D5185m		1140	1079	1059
	Zinc	ppm	ASTM D5185m		1407	1435	1330
	Sulfur	ppm	ASTM D5185m		2753	3096	3600
	Oxidation	Abs/.1mm	*ASTM D7414		31.0	22.5	20.8
	Base Number (BN)	0 0	ASTM D2896		4.4	5.1	7.9
	Visc @ 100°C	cSt	ASTM D445	14.4	15.3	14.3	14.5







Certificate L2367

Laboratory Sample No.

Lab Number : 06099689 Unique Number: 10897919

: WC0842163 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 26 Feb 2024 **Tested** : 27 Feb 2024

: 28 Feb 2024 - Jonathan Hester Diagnosed

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: