

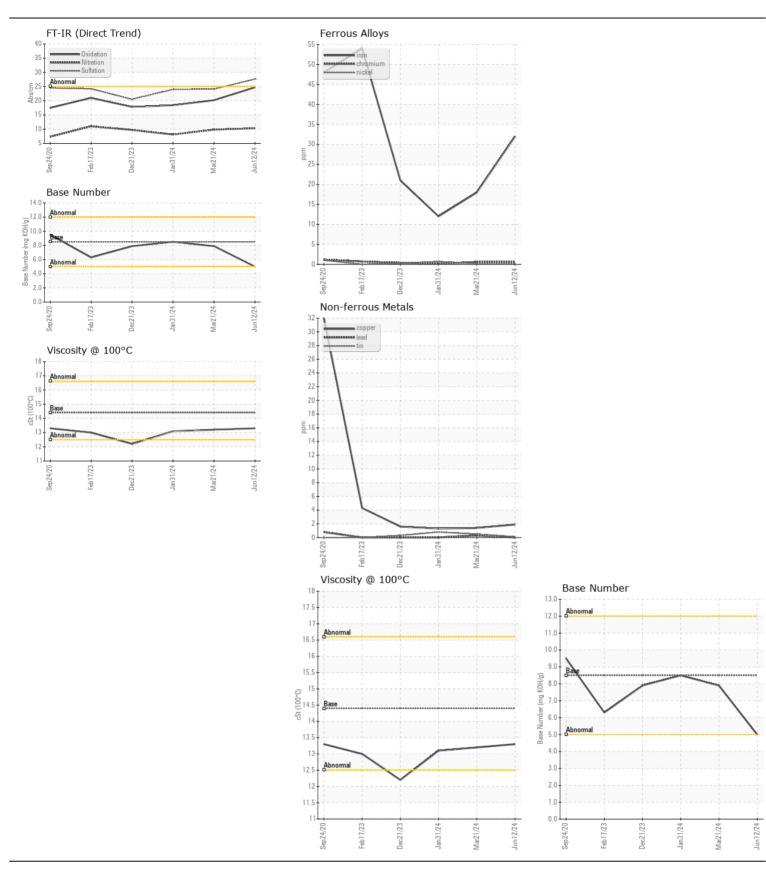
**WEAR** CONTAMINATION **FLUID CONDITION** 

**NORMAL NORMAL NORMAL** 

Machine Id

37296 Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0936740		WC0904401
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.	Sample Date		Client Info		12 Jun 2024	21 Mar 2024	31 Jan 2024
	Machine Age	mls	Client Info		167363	147596	133782
	Oil Age	mls	Client Info		10000	13814	0
	Filter Age	mls	Client Info		10000	13814	0
	Oil Changed		Client Info		Changed	Changed	N/A
	Filter Changed		Client Info		Changed	Changed	N/A
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	32	18	12
VLAN	Chromium		ASTM D5185m		<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	<1	<1
	Titanium	ppm	ASTM D5185m	>4	<1	<1	<1
	Silver		ASTM D5185m	~3	0	0	<1
	Aluminum	ppm ppm	ASTM D5185m		6	7	7
	Lead		ASTM D5185m		0	<1	0
	Copper	ppm	ASTM D5185m		2	1	1
	Tin	ppm	ASTM D5185m		<1	<1	<1
	Vanadium	ppm	ASTM D5185m	>10	0	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m		8	7	6
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		14	6	6
	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol	21	WC Method	0	NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.4	0.3	0.2
	Nitration	Abs/dmm	*ASTM D7624	>20	10.3	9.8	8.1
	Sulfation	Abs/.1mm	*ASTM D7415		27.6	24.1	24.0
	Silt	scalar	*Visual	NONE	NONE NONE	NONE NONE	NONE
	Debris Sand/Dist	scalar		NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE NORML	NORML	NORML	NORM
	Appearance Odor	scalar scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>44	4	1	2
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m	250	76	251	290
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m	10	0	<1	0
	Molybdenum	ppm	ASTM D5185m	100	98	147	123
	Manganese	ppm	ASTM D5185m		1	<1	<1
	Magnesium	ppm	ASTM D5185m		460	664	716
	Calcium	ppm	ASTM D5185m	3000	1547	1611	1488
	Dhaanharus	ppm	ASTM D5185m		1047	738	776
	Phosphorus					00=	~ ~ =
	Zinc	ppm	ASTM D5185m		1270	887	895
	Zinc Sulfur	ppm	ASTM D5185m	4250	3448	2438	2472
	Zinc	ppm Abs/.1mm	ASTM D5185m *ASTM D7414	4250 >25			







Certificate L2367

Laboratory Sample No.

Lab Number : 06212868 Unique Number : 11085732

Test Package : FLEET

: WC0936740

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

: 17 Jun 2024 : 19 Jun 2024 : 19 Jun 2024 - Wes Davis

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. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

T: (336)767-9642 F: x: