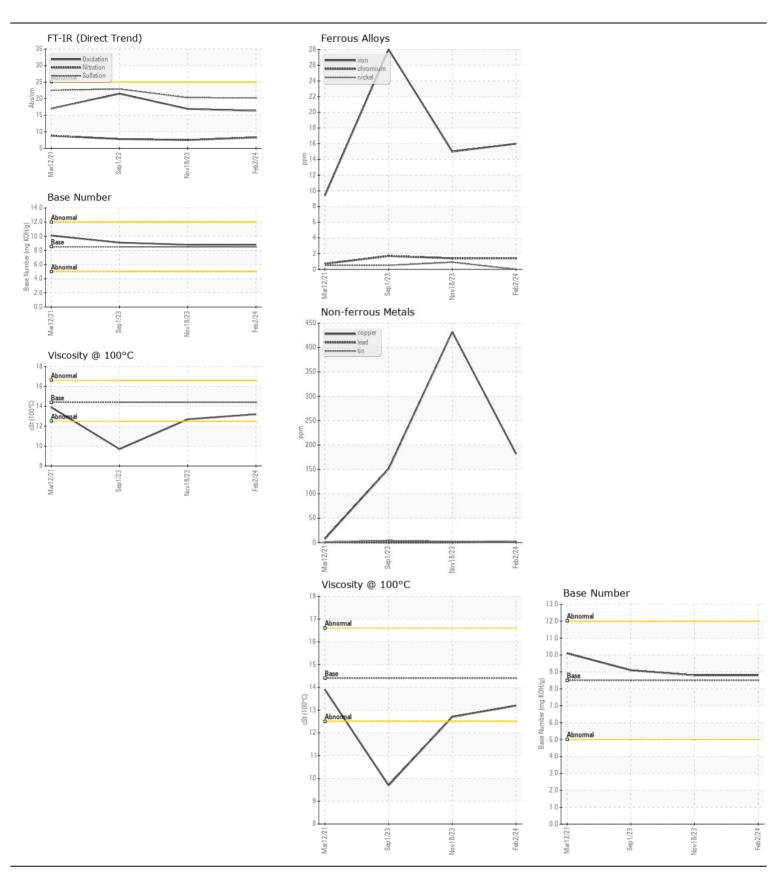
WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

Machine Id **23570** 

Component
Diesel Engine

DECOMMENDATION	T	11014	N.AAl-	1.59741	(	118-4- 4	115-4
RECOMMENDATION  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		Client Info		WC0912514		WC0840893
	Sample Date	mla	Client Info		02 Feb 2024	18 Nov 2023	01 Sep 2023
	Machine Age	mls	Client Info		64016	40280	0
	Oil Age	mls	Client Info		0	0	0
	Filter Age Oil Changed	mls	Client Info		Changed	0 Changed	N/A
	Filter Changed		Client Info		Changed	Changed	N/A
	Sample Status		Chefit iiiio		NORMAL	NORMAL	ABNORMAL
					·····		
WEAR	Iron	ppm	ASTM D5185m	>100	16	15	28
	Chromium	ppm	ASTM D5185m	>20	1	1	2
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m	>4	0	<1	<1
	Titanium	ppm	ASTM D5185m		<1	<1	0
	Silver	ppm	ASTM D5185m	>3	<1	0	1
	Aluminum	ppm	ASTM D5185m	>20	5	8	<b>3</b> 4
	Lead	ppm	ASTM D5185m	>40	2	<1	0
	Copper	ppm	ASTM D5185m	>330	182	432	<b>151</b>
	Tin	ppm	ASTM D5185m	>15	1	2	4
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	4	4	7
CONTAMINATION	Potassium	ppm	ASTM D5185m		12	25	92
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.	Fuel	ppiii	WC Method		<1.0	<1.0	0.1
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.4	0.3	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	8.3	7.5	7.8
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.2	20.3	22.9
	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	<b>\158</b>	2	0	6
	Boron	ppm	ASTM D5185m		<1	4	35
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	1	0
	Molybdenum	ppm	ASTM D5185m		64	59	41
	Manganese	ppm	ASTM D5185m		<1	1	4
	Magnesium	ppm	ASTM D5185m	450	1050	901	548
	Calcium	ppm	ASTM D5185m	3000	1181	1176	1646
	Phosphorus	ppm	ASTM D5185m		1054	922	727
	Zinc	ppm	ASTM D5185m		1275	1135	915
	Sulfur	ppm	ASTM D5185m	4250	3122	2860	2202
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.3	16.9	21.5
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.8	8.8	9.1
	Visc @ 100°C	cSt	ASTM D445	111	13.2	12.7	<b>9.7</b>







Certificate L2367

Laboratory Sample No.

: WC0912514 Lab Number : 06191533 Unique Number : 11048285 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 24 May 2024 : 29 May 2024 **Tested** 

Diagnosed : 29 May 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)

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