

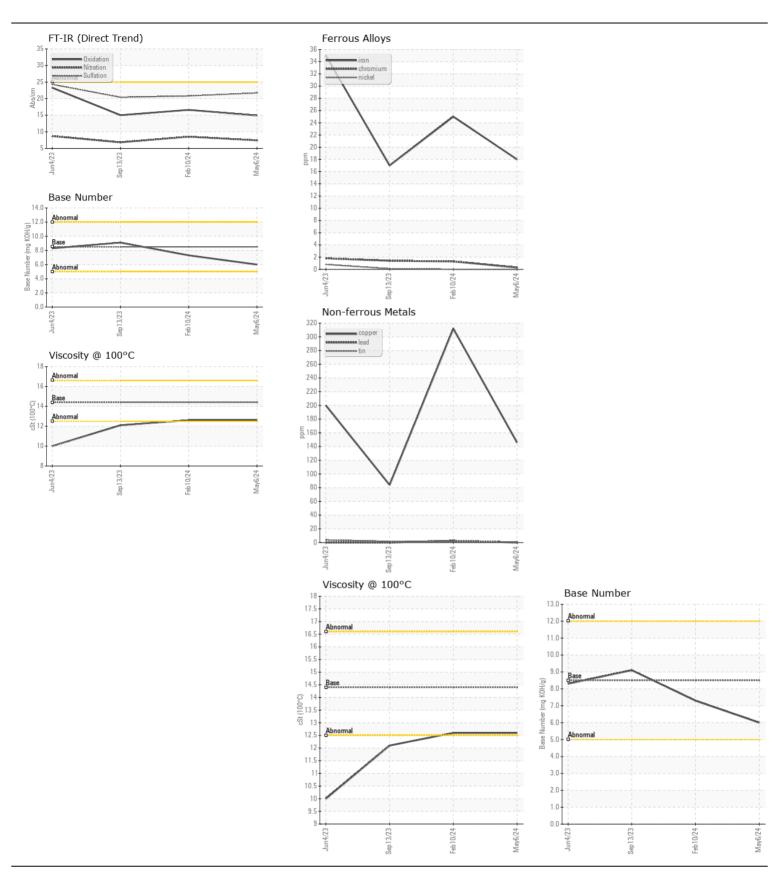
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL NORMAL

Machine Id

43571
Component
Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Recomple at the part convice interval to manitar Places enecify the	Sample Number		Client Info		WC0904478	WC0904546	WC079013
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		06 May 2024	10 Feb 2024	13 Sep 202
	Machine Age	mls	Client Info		67827	53464	25000
	Oil Age	mls	Client Info		25000	25000	25000
	Filter Age	mls	Client Info		25000	25000	25000
	Oil Changed		Client Info		N/A	Changed	Changed
	Filter Changed		Client Info		N/A	Changed	Changed
	Sample Status				NORMAL	NORMAL	ATTENTIO
WEAR	Iron	ppm	ASTM D5185m	>100	18	25	17
	Chromium	ppm	ASTM D5185m	>20	<1	1	1
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m		0	0	<1
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m	>3	<1	0	0
	Aluminum	ppm	ASTM D5185m	>20	12	25	26
	Lead	ppm	ASTM D5185m	>40	0	2	0
	Copper	ppm	ASTM D5185m	>330	146	312	84
	Tin	ppm	ASTM D5185m	>15	<1	1	2
	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	5	4	3
Elevated aluminum (AI) 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		27	59	62
	Fuel	1-1-	WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.7	0.8	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	7.4	8.5	6.8
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.7	20.8	20.4
	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	ppm	ASTM D5185m	>158	2	2	1
	Boron	ppm	ASTM D5185m	250	241	6	5
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	10	0	0	0
	Molybdenum	ppm	ASTM D5185m	100	82	65	64
	Manganese	ppm	ASTM D5185m		<1	0	<1
	Magnesium	ppm	ASTM D5185m	450	517	933	849
	Calcium	ppm	ASTM D5185m	3000	1295	1113	1102
	Phosphorus	ppm	ASTM D5185m	1150	1006	982	957
	Zinc	ppm	ASTM D5185m		1224	1120	1178
	Sulfur	ppm	ASTM D5185m	4250	3118	2652	3338
	Oxidation	Abs/.1mm	*ASTM D7414		14.9	16.6	15.0
	Base Number (BN) Visc @ 100°C	mg KOH/g cSt	ASTM D2896 ASTM D445		6.0 12.6	7.3 12.6	9.1







Certificate L2367

Laboratory Sample No.

Lab Number : 06196507 Unique Number : 11058630

: WC0904478

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

Received **Tested** Diagnosed

: 31 May 2024 : 03 Jun 2024

: 03 Jun 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 F: x:

Test Package : FLEET 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)