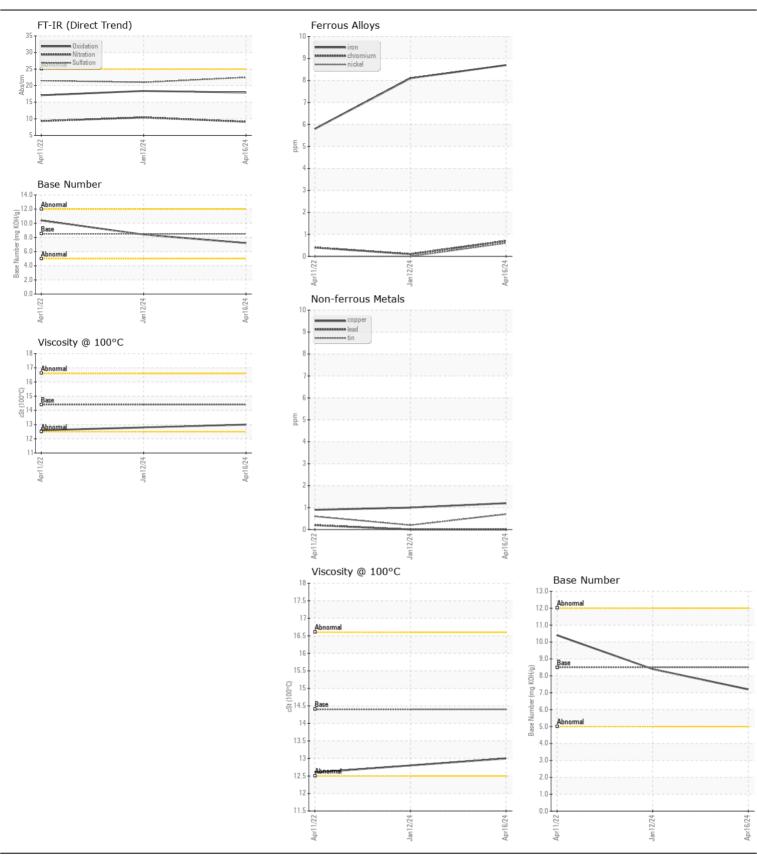
WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

Machine Id **15175**

Component Diesel Engine

DECOMMENDATION.							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
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 Number		Client Info		WC0919682	WC0852335	WC0680268
	Sample Date		Client Info		16 Apr 2024	12 Jan 2024	11 Apr 2022
	Machine Age	mls	Client Info		354789	0	238474
	Oil Age	mls	Client Info		15081	0	0
	Filter Age	mls	Client Info		15081	O	0 Changed
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed NORMAL	Changed NORMAL	Changed NORMAL
	Sample Status				NORMAL	INONIVIAL	INUNIVIAL
WEAR	Iron	ppm	ASTM D5185m	>100	9	8	6
	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>4	<1	0	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	<1
	Aluminum	ppm	ASTM D5185m	>20	4	4	3
	Lead	ppm	ASTM D5185m	>40	0	0	<1
	Copper	ppm	ASTM D5185m	>330	1	1	<1
	Tin	ppm	ASTM D5185m	>15	<1	<1	<1
	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	nnm	ASTM D5185m	>25	5	6	4
CONTAININATION	Potassium	ppm	ASTM D5185m		10	4	<1
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	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	70.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	\3	0.5	0.5	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	9.1	10.4	9.3
	Sulfation	Abs/.1mm	*ASTM D7415		22.5	21.0	21.5
	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	NORMI
	Odor	scalar	*Visual	NORML	NORML	NORML	NORMI
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		5	2	1
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		179	4	6
	Barium	ppm	ASTM D5185m		<1	0	0
	Molybdenum	ppm	ASTM D5185m	100	83	62	68
	Manganese	ppm	ASTM D5185m	450	<1	<1	<1
	Magnesium	ppm	ASTM D5185m		519	979	1001
	Calcium	ppm	ASTM D5185m		1306	1064	1155
	Phosphorus	ppm	ASTM D5185m		1000	1002	1118
	Zinc	ppm	ASTM D5185m		1258	1299	1278
	Sulfur	ppm	ASTM D5185m		3148	3183	2937
	Oxidation Base Number (BN)	Abs/.1mm	*ASTM D7414		17.9 7.2	18.4 8.4	17.1 10.4
	Race Number (RNI)	ma KI IH/a	45 11/11/28/46	× n		× 4	1() 4







Certificate L2367

Laboratory Sample No.

: WC0919682 Lab Number : 06156591 Unique Number : 10992014 Test Package : FLEET

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 22 Apr 2024 **Tested** : 23 Apr 2024

Diagnosed : 23 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

* - 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: