

WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

Machine Id

19992

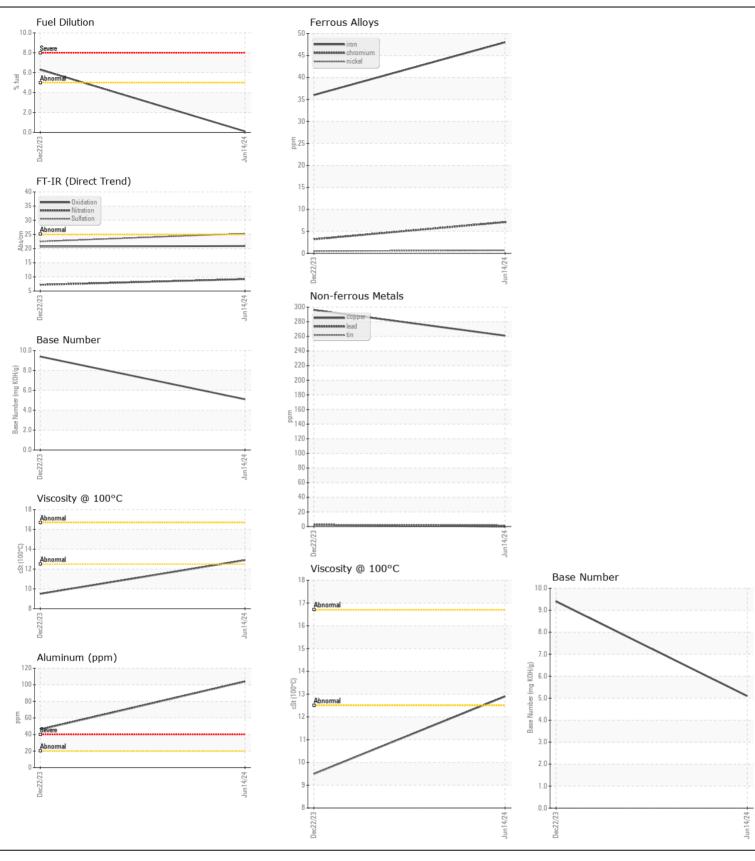
19992 Component							
Diesel Engine							
Fluid							
{not provided} (QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Number		Client Info		WC0946091	WC0871940	
	Sample Date		Client Info		14 Jun 2024	22 Dec 2023	
	Machine Age	mls	Client Info		76450	18300	
	Oil Age	mls	Client Info		57000	18300	
	Filter Age	mls	Client Info		57000	18300	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	ABNORMAL	
WEAR	Iron	ppm	ASTM D5185m	>100	48	36	
WLAN	Chromium	ppm	ASTM D5185m		7	3	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		, <1	<1	
	Titanium	ppm	ASTM D5185m	7-7	0	<1	
	Silver	ppm	ASTM D5185m	>3	<1	<1	
	Aluminum	ppm	ASTM D5185m		104	46	
	Lead	ppm	ASTM D5185m		0	2	
	Copper	ppm	ASTM D5185m		261	296	
	Tin	ppm	ASTM D5185m	>15	2	2	
	Vanadium	ppm	ASTM D5185m		0	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTARINATION							
Fuel content negligible. 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.	Silicon	ppm	ASTM D5185m		8	9	
	Potassium	ppm	ASTM D5185m		235	157 6 .3	
	Fuel Water	%	ASTM D3524 WC Method		0.1 NEG	NEG	
	Glycol		WC Method	>0.2	NEG	0.0	
	Soot %	%	*ASTM D7844	~3	0.9	0.3	
	Nitration	Abs/cm	*ASTM D7624		9.2	7.2	
	Sulfation	Abs/.1mm	*ASTM D7415		25.3	22.5	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
ELLUD CONDITION	0 "		AOTA DE LOS			40	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		6	13	
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		91	46	
	Barium	ppm	ASTM D5185m		0	<1	
	Molybdenum Manganese	ppm	ASTM D5185m ASTM D5185m		82 2	42 4	
	Magnesium	ppm	ASTM D5185m		434	539	
	Calcium	ppm	ASTM D5185m		1495	1642	
	Phosphorus	ppm	ASTM D5185m		1000	798	
	Zinc	ppm	ASTM D5185m		1258	947	
	Sulfur	ppm	ASTM D5185m		2828	2401	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	20.9	20.7	
	Base Number (BN)	mg KOH/g	ASTM D2896		5.1	9.4	
	Vier @ 10000	- C+	ACTM DA45		40.0	A 0.F	

12.9

ASTM D445

Visc @ 100°C cSt

<u>4</u> 9.5





Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0946091 Lab Number : 06217523

Unique Number : 11090387

Received : 21 Jun 2024 **Tested**

: 25 Jun 2024 Diagnosed : 25 Jun 2024 - Wes Davis Test Package: FLEET (Additional Tests: PercentFuel)

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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