WEAR CONTAMINATION FLUID CONDITION

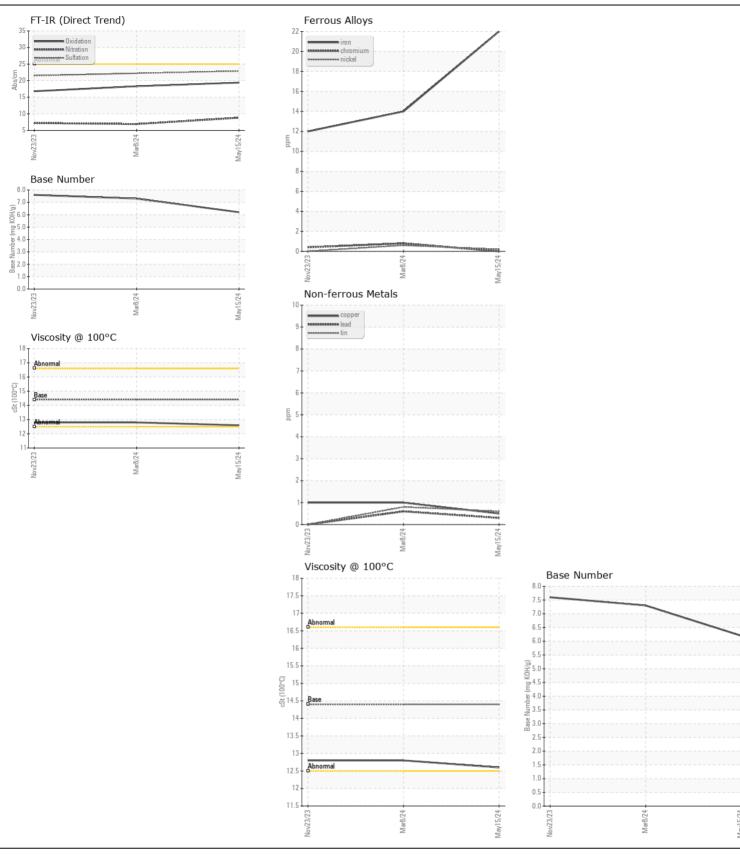
NORMAL NORMAL NORMAL

Machine Id

HI80182

Component
Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0879872	WC0879965	WC0879863
Resample at the next service interval to monitor. Please specify the component make and model with your next sample.	Sample Date		Client Info		15 May 2024	08 Mar 2024	23 Nov 202
	Machine Age	mls	Client Info		174982	160305	154971
	Oil Age	mls	Client Info		10000	10000	0
	Filter Age	mls	Client Info		10000	10000	0
	Oil Changed		Client Info		Changed	Changed	N/A
	Filter Changed		Client Info		Changed	Changed	N/A
	Sample Status				NORMAL	NORMAL	NORMAL
VEAR	Iron	ppm	ASTM D5185m	>100	22	14	12
WEATT-	Chromium	ppm	ASTM D5185m		0	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	<1	0
	Titanium	ppm	ASTM D5185m		0	<1	<1
	Silver	ppm	ASTM D5185m	>3	<1	0	0
	Aluminum	ppm	ASTM D5185m		11	6	6
	Lead	ppm	ASTM D5185m		<1	<1	0
	Copper	ppm	ASTM D5185m	>330	<1	1	1
	Tin	ppm	ASTM D5185m	>15	<1	<1	0
	Vanadium	ppm	ASTM D5185m		0	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon		ACTM DE10Em	. 05	7	7	6
CONTAMINATION	Potassium	ppm	ASTM D5185m ASTM D5185m	>25	7 12	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.	Fuel	ppm	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	<i>></i> 0.∠	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	~3	0.5	0.3	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	8.8	6.9	7.2
	Sulfation	Abs/.1mm	*ASTM D7415		22.9	22.2	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
THIR CONDITION	C		ACTA DE10E	400		4	
FLUID CONDITION	Sodium	ppm	ASTM D5185m ASTM D5185m	>406	2	<1 408	2 237
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		267		
	Barium Molybdenum	ppm	ASTM D5185m		0 89	<1 89	0 81
	Manganese	ppm	ASTM D5185m				
	Magnesium	ppm	ASTM D5185m		<1 430	<1 403	<1 575
	Calcium	ppm	ASTM D5185m		1332	1335	1357
	Phosphorus	ppm	ASTM D5185m		1018	1055	1051
	Zinc	ppm	ASTM D5185m		1212	1187	1298
	Sulfur	ppm	ASTM D5185m		3472	3174	3328
	Oxidation	Abs/.1mm	*ASTM D7414	>25	19.4	18.3	16.8
	Base Number (BN)			7 20	6.2	7.3	7.6
	(211)	99					12.8







Certificate L2367

Laboratory Sample No.

: WC0879872 Lab Number : 06193434 Unique Number : 11050186 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 : 28 May 2024 **Tested** : 30 May 2024

Diagnosed : 30 May 2024 - Wes Davis

SALEM NATIONALEASE CORPORATION

198 PARK PLAZA DRIVE WINSTON SALEM, NC US 27105

Contact: Audrey Hopkins Audrey.Hopkins@salemcorp.com

* - 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: