WEAR CONTAMINATION FLUID CONDITION

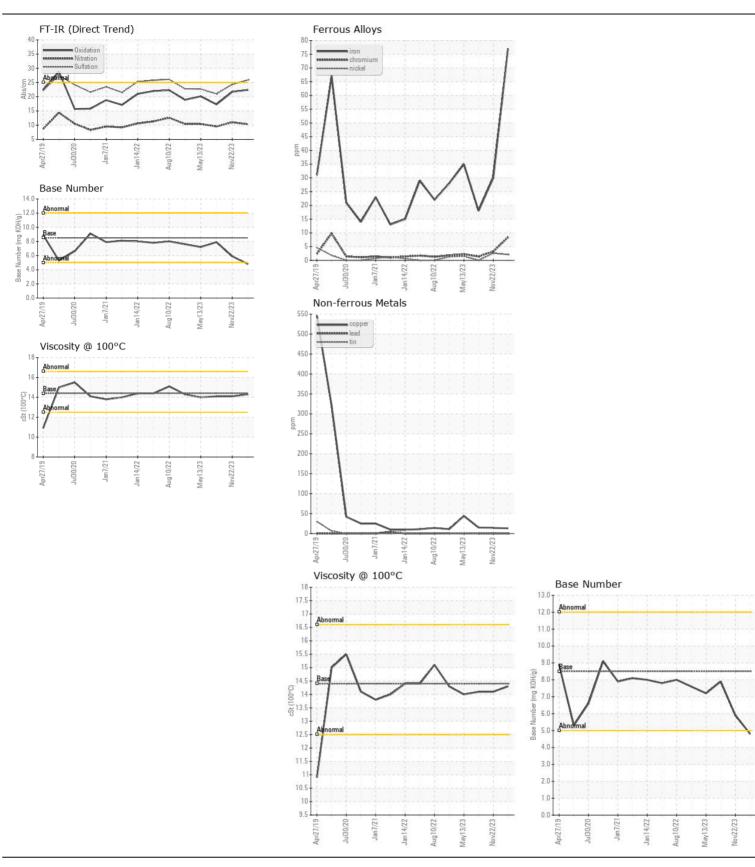
NORMAL NORMAL NORMAL

Machine Id

51292 Component

Component
Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WC0928947	WC0841790	WC0841850
	Sample Date		Client Info		23 Apr 2024	22 Nov 2023	26 Jul 2023
	Machine Age	mls	Client Info		711851	658950	611025
	Oil Age	mls	Client Info		0	0	0
	Filter Age	mls	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	nnm	ASTM D5185m	>100	77	30	18
WEAR	Iron	ppm			77		1
All component wear rates are normal.	Chromium Nickel	ppm	ASTM D5185m		8 2	3	0
	Titanium	ppm	ASTM D5185m ASTM D5185m	>4			<1
		ppm		. 0	<1	<1	
	Silver	ppm	ASTM D5185m		0	0 5	0
	Aluminum	ppm	ASTM D5185m		16		
	Lead Copper	ppm	ASTM D5185m ASTM D5185m		0 13	0 14	0
	Tin	ppm	ASTM D5185m		13 <1	<1	<1
	Vanadium	ppm	ASTM D5185m	>10	0	0	0
	White Metal	ppm scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
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CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	12	8	5
	Potassium	ppm	ASTM D5185m	>20	4	2	2
There is no indication of any contamination in the oil.	Fuel		WC Method	>5	<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	0.6
	Nitration	Abs/cm	*ASTM D7624	>20	10.3	11.0	9.5
	Sulfation	Abs/.1mm	*ASTM D7415	>30	25.9	24.3	21.0
	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	nnm	ASTM D5185m	L 150	13	0	0
I LOID CONDITION	Boron	ppm	ASTM D5185m		46	<1	0
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	0	2
	Molybdenum	ppm	ASTM D5185m		84	72	66
	Manganese	ppm	ASTM D5185m	100	2	0	<1
	Magnesium	ppm	ASTM D5185m	450	660	1043	972
	Calcium	ppm	ASTM D5185m		1370	1169	1164
	Phosphorus	ppm	ASTM D5185m		1111	1052	1049
	Zinc	ppm	ASTM D5185m		1367	1320	1274
	Sulfur	ppm	ASTM D5185m		3207	2977	2835
	Oxidation	Abs/.1mm	*ASTM D7414		22.4	21.7	17.3
	Base Number (BN)		ASTM D2896		4.8	5.9	7.9
	Visc @ 100°C		ASTM D445			14.1	14.1







Certificate L2367

Laboratory Sample No.

: WC0928947 Lab Number : 06191657 Unique Number : 11048409 Test Package : FLEET

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

Diagnosed : 29 May 2024 - Angela Borella

SALEM NATIONALEASE CORPORATION

198 PARK PLAZA DRIVE WINSTON SALEM, NC

US 27105 Contact: Audrey Hopkins

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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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