

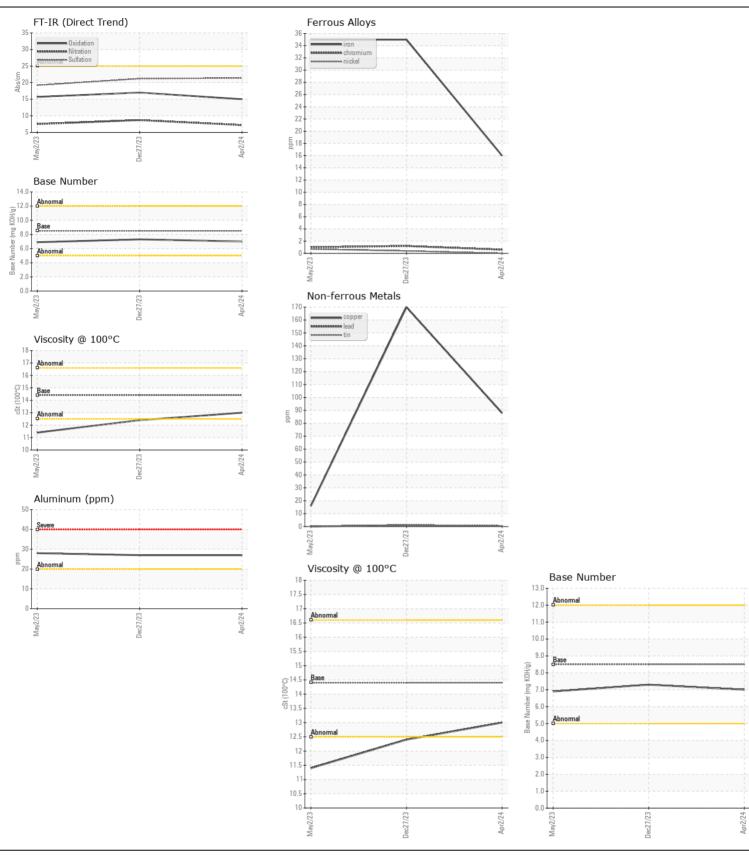
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL NORMAL

Machine Id

59275 Component Diesel Engine

Fluid Engine							
DIESEL ENGINE OIL SAE 40 (QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
RECOMMENDATION	Sample Number	OCIVI	Client Info	LITTIUAUTI	WC0883177	WC0883309	WC0787889
Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm. Please specify the component make and model with your next sample.	Sample Date		Client Info		02 Apr 2024	27 Dec 2023	02 May 2023
	Machine Age	mls	Client Info		0	52406	20773
	Oil Age	mls	Client Info		12000	0	20773
	Filter Age	mls	Client Info		0	0	20773
	Oil Changed		Client Info		N/A	Changed	Changed
	Filter Changed		Client Info		N/A	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m		16	35	35
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	1	1
	Nickel	ppm	ASTM D5185m	>4	0	<1	<1
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		27	27	28
	Lead	ppm	ASTM D5185m		<1	1	0
	Copper	ppm	ASTM D5185m		88	170	16
	Tin	ppm	ASTM D5185m	>15	<1	<1	0
	Vanadium	ppm	ASTM D5185m	NONE	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	6	11	14
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.	Potassium	ppm	ASTM D5185m	>20	45	60	79
	Fuel		WC Method	>5	<1.0	<1.0	0.5
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.5	0.6	0.6
	Nitration	Abs/cm	*ASTM D7624	>20	7.2	8.7	7.5
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.4	21.2	19.2
	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	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>216	4	3	4
	Boron	ppm	ASTM D5185m		240	11	57
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	78	70	63
	Manganese	ppm	ASTM D5185m		1	2	5
	Magnesium	ppm	ASTM D5185m	450	536	893	482
	Calcium	ppm	ASTM D5185m	3000	1297	1324	1815
	Phosphorus	ppm	ASTM D5185m	1150	1027	1117	1052
	Zinc	ppm	ASTM D5185m		1189	1330	1299
	Sulfur	ppm	ASTM D5185m		3465	2964	3855
	Oxidation	Abs/.1mm	*ASTM D7414		15.0	17.0	15.7
	Base Number (BN)				7.0	7.3	6.9
	Visc @ 100°C	cSt	ASTM D445	14.4	13.0	12.4	11.4







Certificate L2367

Laboratory Sample No.

Lab Number : 06153707 Unique Number: 10983785

: WC0883177 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 18 Apr 2024 **Tested** : 19 Apr 2024

Diagnosed : 19 Apr 2024 - Wes Davis

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)

F: x: