

WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL NORMAL

Machine Id 9256

Component
Diesel Engine

Diesei Liigilie							
DIESEL ENGINE OIL SAE 40 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
RECOMMENDATION	Sample Number	OOW	Client Info	LIIIIIUAUII	WC0879896		
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		29 May 2024	23 Nov 2022	
	Machine Age	mls	Client Info		108601	66444	12107
	Oil Age	mls	Client Info		0	0	0
	Filter Age	mls	Client Info		0	0	0
	Oil Changed	11110	Client Info		N/A	Changed	N/A
	Filter Changed		Client Info		N/A	Changed	N/A
	Sample Status		Olioni illio		NORMAL	NORMAL	ABNORMAL
WEAR	Iron	ppm	ASTM D5185m		15	28	19
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		1	3	<1
	Nickel	ppm	ASTM D5185m	>4	0	0	<1
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m		<1	0	<1
	Aluminum	ppm	ASTM D5185m		5	12	5
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m		23	70	△ 646
	Tin	ppm	ASTM D5185m	>15	<1	3	5
	Vanadium	ppm	ASTM D5185m		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	4	4	4
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in	Potassium	ppm	ASTM D5185m	>20	14	28	26
	Fuel		WC Method		<1.0	<1.0	0.2
your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no	Water		WC Method	>0.2	NEG	NEG	NEG
indication of any contamination in the oil.	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.5	0.6	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	9.2	10.9	8.3
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.4	23.1	20.7
	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	2	2
	Boron	ppm	ASTM D5185m		8	2	25
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	0
	Molybdenum	ppm	ASTM D5185m	100	66	64	56
	Manganese	ppm	ASTM D5185m		1	1	2
	Magnesium	ppm	ASTM D5185m	450	931	929	856
	Calcium	ppm	ASTM D5185m	3000	1154	1090	1325
	Phosphorus	ppm	ASTM D5185m	1150	1031	899	974
	Zinc	ppm	ASTM D5185m	1350	1252	1175	1106
	Sulfur	ppm	ASTM D5185m	4250	3078	2474	2885
	Oxidation	Abs/.1mm	*ASTM D7414	>25	18.2	21.1	15.9
	Base Number (BN)	0 0	ASTM D2896	8.5	7.4	6.3	9.4
	Vian @ 100°C	oC+	ACTM DA4E	111	122	120	101

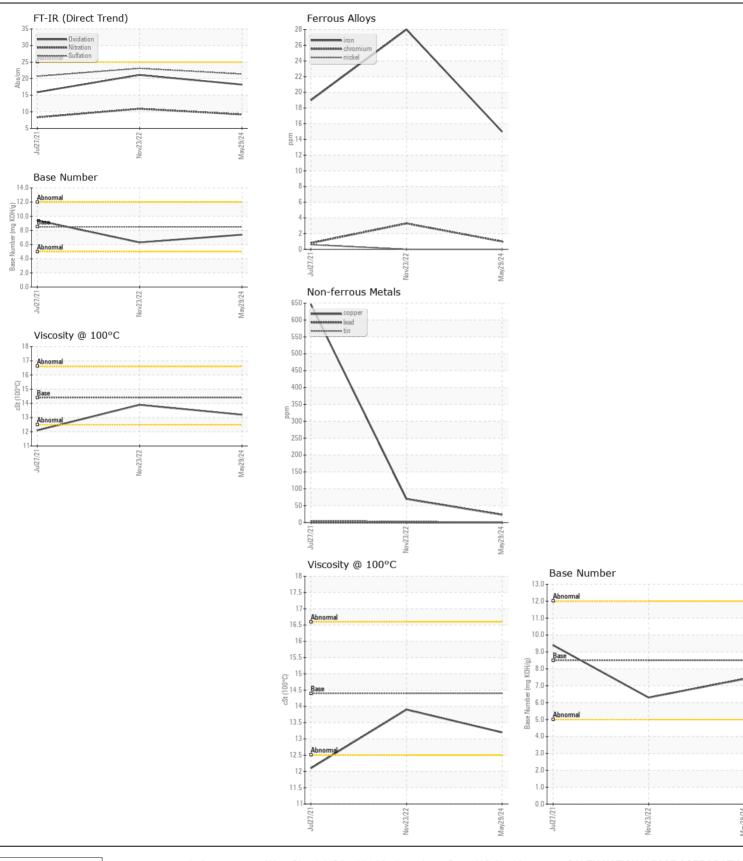
Visc @ 100°C cSt

ASTM D445 14.4

13.9

13.2

12.1







Certificate L2367

Laboratory Sample No.

: WC0879896 Lab Number : 06212903 Unique Number : 11085767 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 17 Jun 2024 **Tested** : 19 Jun 2024

Diagnosed : 19 Jun 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: