

WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

Machine Id **37291**

Component
Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
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		WC0882335	WC0710741	-
	Sample Date		Client Info		07 Feb 2024	21 Jul 2022	16 Mar 202
	Machine Age	mls	Client Info		141084	59628	51298
	Oil Age	mls	Client Info		10000	0	25000
	Filter Age	mls	Client Info		10000	0	0
	Oil Changed		Client Info		Changed	Changed	N/A
	Filter Changed		Client Info		Changed	Changed	N/A
	Sample Status				NORMAL	NORMAL	NORMA
WEAR	Iron	ppm	ASTM D5185m	>100	24	26	24
WEAR	Chromium	ppm	ASTM D5185m		<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	<1	<1
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	8	5	4
	Lead	ppm	ASTM D5185m	>40	0	<1	0
	Copper	ppm	ASTM D5185m	>330	<1	2	8
	Tin	ppm	ASTM D5185m	>15	0	<1	<1
	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	5	6	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.	Potassium	ppm	ASTM D5185m		11	7	5
	Fuel	ррііі	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.6	0.7	0.6
	Nitration	Abs/cm	*ASTM D7624	>20	10.0	11.6	10.5
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.5	23.6	22.0
	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	ppm	ASTM D5185m	>44	0	2	1
	Boron	ppm	ASTM D5185m		1	3	4
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		69	65	57
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m	450	998	1022	944
	Calcium	ppm	ASTM D5185m	3000	1119	1156	1147
	Phosphorus	ppm	ASTM D5185m	1150	986	1118	1014
	Zinc	ppm	ASTM D5185m	1350	1319	1353	1192
	Sulfur	ppm	ASTM D5185m		3126	3926	2585
	Oxidation	Abs/.1mm	*ASTM D7414		17.0	19.1	17.7
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.4	9.3	9.3
	Vice @ 100°C	~C+	VCTM DAVE		10 5	100	10 0

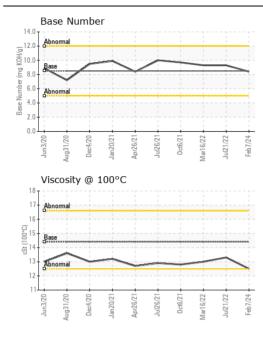
Visc @ 100°C cSt

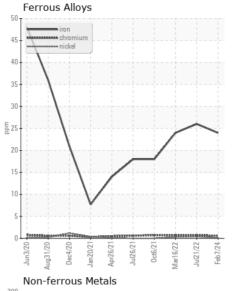
ASTM D445 14.4

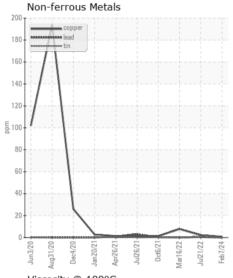
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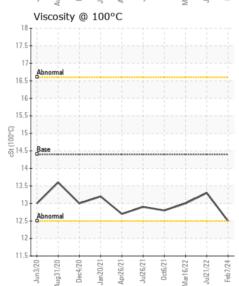
12.5

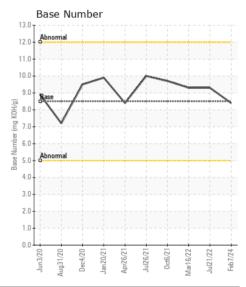
13.0













Certificate L2367

Laboratory Sample No.

Lab Number : 06089275

Unique Number: 10876720 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0882335 Received : 14 Feb 2024 **Tested** : 15 Feb 2024

: 15 Feb 2024 - Wes Davis Diagnosed

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:

Contact/Location: Audrey Hopkins - SALWIN