

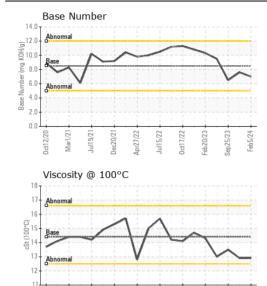
WEAR CONTAMINATION **FLUID CONDITION**

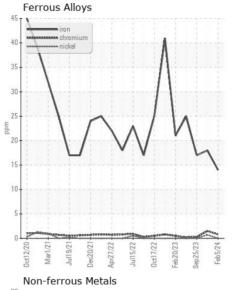
NORMAL NORMAL NORMAL

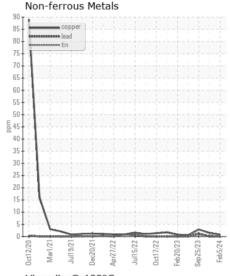
Machine Id **12963**

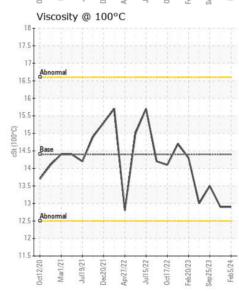
Component Diesel Engine

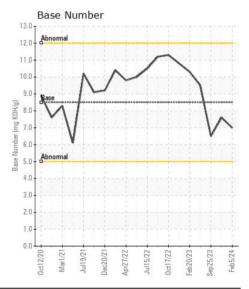
DIESEL ENGINE OIL SAE 15W40 (QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
RECOMMENDATION	Sample Number	UOIVI	Client Info	LIIIII/ADII	WC0841845	WC0842001	WC0841802
Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Number		Client Info		05 Feb 2024	02 Dec 2023	25 Sep 2023
	Machine Age	mls	Client Info		187692	179853	170438
	Oil Age	mls	Client Info		0	0	0
	Filter Age	mls	Client Info		0	0	0
	Oil Changed	11110	Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	ABNORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	14	18	17
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1	2	<1
	Nickel	ppm	ASTM D5185m	>4	0	<1	0
	Titanium	ppm	ASTM D5185m		<1	<1	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	5	3	2
	Lead	ppm	ASTM D5185m	>40	0	0	1
	Copper	ppm	ASTM D5185m	>330	<1	2	3
	Tin	ppm	ASTM D5185m	>15	0	<1	<1
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	7	11	2 9
	Potassium	ppm	ASTM D5185m	>20	6	12	6
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	0.3	0.3	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	9.1	10.9	13.1
	Sulfation	Abs/.1mm	*ASTM D7415	>30	24.4	23.7	24.4
	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	>158	4	5	4
	Boron	ppm	ASTM D5185m	250	322	6	22
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	14	0
	Molybdenum	ppm	ASTM D5185m	100	85	71	44
	Manganese	ppm	ASTM D5185m		<1	<1	1
	Magnesium	ppm	ASTM D5185m	450	471	933	657
	Calcium	ppm	ASTM D5185m	3000	1362	1196	1552
	Phosphorus	ppm	ASTM D5185m		1043	1081	1010
	Zinc	ppm	ASTM D5185m		1209	1294	1218
	Sulfur	ppm	ASTM D5185m		2984	3558	3497
	Oxidation	Abs/.1mm	*ASTM D7414		21.0	22.1	23.3
	Base Number (BN)				7.0	7.6	6.5
	Visc @ 100°C	cSt	ASTM D445	14.4	12.9	12.9	13.5













Certificate L2367

Laboratory Sample No.

: WC0841845 Lab Number : 06099764 Unique Number: 10897994 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 26 Feb 2024 : 27 Feb 2024 **Tested**

: 27 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)

Report Id: SALWIN [WUSCAR] 06099764 (Generated: 02/27/2024 12:46:42) Rev: 1

Contact/Location: Audrey Hopkins - SALWIN

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