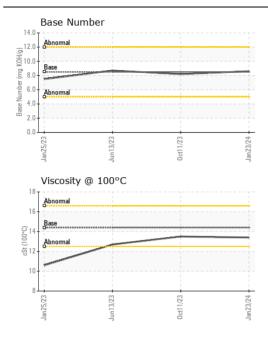


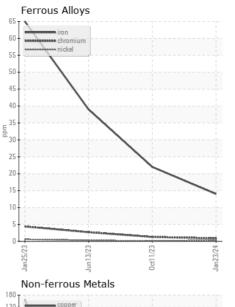
WEAR CONTAMINATION **FLUID CONDITION** **NORMAL NORMAL NORMAL**

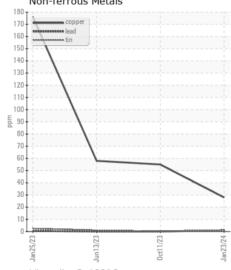
Machine Id 18181

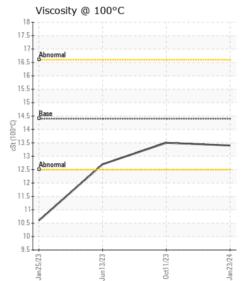
Component

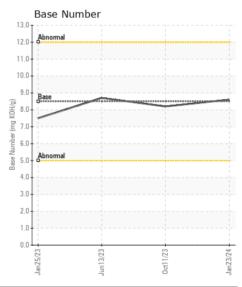
Diesel Engine							
DIESEL ENGINE OIL SAE 15W40 (QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Number		Client Info		WC0841909		WC0742391
	Sample Date		Client Info		23 Jan 2024	11 Oct 2023	13 Jun 2023
	Machine Age	mls	Client Info		93262	76111	52927
	Oil Age	mls	Client Info		0	0	0
	Filter Age	mls	Client Info		0	O Charanad	O Charanad
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed NORMAL	Changed NORMAL	Changed NORMAL
	Sample Status				NORWAL	INONIVIAL	INUNIVIAL
WEAR	Iron	ppm	ASTM D5185m	>100	14	22	39
	Chromium	ppm	ASTM D5185m	>20	<1	1	3
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>4	<1	<1	<1
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>3	<1	<1	<1
	Aluminum	ppm	ASTM D5185m	>20	7	16	37
	Lead	ppm	ASTM D5185m		<1	0	0
	Copper	ppm	ASTM D5185m		28	55	58
	Tin	ppm	ASTM D5185m	>15	<1	<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 >2					6	9	8
Elevated aluminum (AI) 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		14	36	73
	Fuel	PP···	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.5	0.7	0.7
	Nitration	Abs/cm	*ASTM D7624	>20	8.1	9.4	10.1
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.5	21.9	22.6
	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	√15 8	1	<1	3
FEOID CONDITION	Boron	ppm	ASTM D5185m		4	5	9
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		67	62	67
	Manganese	ppm	ASTM D5185m	100	<1	<1	2
	Magnesium	ppm	ASTM D5185m	450	987	938	988
	Calcium	ppm	ASTM D5185m		1095	1092	1422
	Phosphorus	ppm	ASTM D5185m		1053	964	1031
	Zinc	ppm	ASTM D5185m		1287	1216	1304
	Sulfur	ppm	ASTM D5185m	4250	2839	2480	3231
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.2	17.8	19.3
	Base Number (BN)	mg KOH/g	ASTM D2896		8.6	8.2	8.7
	Visc @ 100°C	cSt	ASTM D445	14.4	13.4	13.5	12.7













Certificate L2367

Laboratory Sample No.

Test Package : FLEET

: WC0841909 Lab Number : 06099673 Unique Number : 10897903

: 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 Audrey.Hopkins@salemcorp.com

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:

T: (336)767-9642