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

**NORMAL SEVERE ATTENTION** 

## **OTTAWA 2600**

Component Diesel Engine							
Fluid							
DIESEL ENGINE OIL SAE 15W40 ( QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0841895	WC0742431	WC0645241
We advise that you check for the source of the coolant leak. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Date		Client Info		20 Dec 2023	09 May 2023	01 Aug 2022
	Machine Age	mls	Client Info		73184	73072	72879
	Oil Age	mls	Client Info		0	0	0
	Filter Age	mls	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				SEVERE	ABNORMAL	SEVERE
WEAR	Iron	ppm	ASTM D5185m	>100	2	3	2
WEAR	Chromium	ppm	ASTM D5185m		0	<1	<1
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver		ASTM D5185m	~3	0	0	2
	Aluminum	ppm	ASTM D5185m		<1	0	<1
	Lead		ASTM D5185m		2	1	1
	Copper	ppm	ASTM D5185m		22	12	12
	Tin	ppm	ASTM D5185m		0	<1	<1
	Vanadium	ppm	ASTM D5185m	>10	<1	0	0
	White Metal	ppm scalar	*Visual	NONE	NONE	NONE	NONE
			*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	VISUAI	INOINE	INONE	INOINE	INOINE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	8	11	6
	Potassium	ppm	ASTM D5185m		<u>^</u> 266	<u> </u>	<b>188</b>
Test for glycol is positive. There is a high concentration of glycol present in the oil.	Fuel		WC Method	>5	<1.0	0.3	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol	%	*ASTM D2982		0.10	NEG	0.10
	Soot %	%	*ASTM D7844	>3	0	0.1	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	7.6	6.3	7.4
	Sulfation	Abs/.1mm	*ASTM D7415	>30	17.4	18.4	18.6
	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
	<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
EL LUD GOUDIEIGN							
FLUID CONDITION	Sodium	ppm	ASTM D5185m		<b>291</b>	<u> </u>	<u>193</u>
The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.	Boron	ppm	ASTM D5185m		6	7	8
	Barium	ppm	ASTM D5185m		<1	0	0
	Molybdenum	ppm	ASTM D5185m	100	79	73	75
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		876	981	896
	Calcium	ppm	ASTM D5185m		965	1117	1027
	Phosphorus	ppm	ASTM D5185m		1018	1080	1020
	Zinc	ppm	ASTM D5185m		1167	1268	1254
	Sulfur	ppm	ASTM D5185m		3218	3672	3087
	Oxidation	Abs/.1mm	*ASTM D7414		13.5	13.8	14.3
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	12.2	11.8	13.4
	Vian @ 10000	- C+	ACTM DAGE	4 4 4	405	A 100	10.7

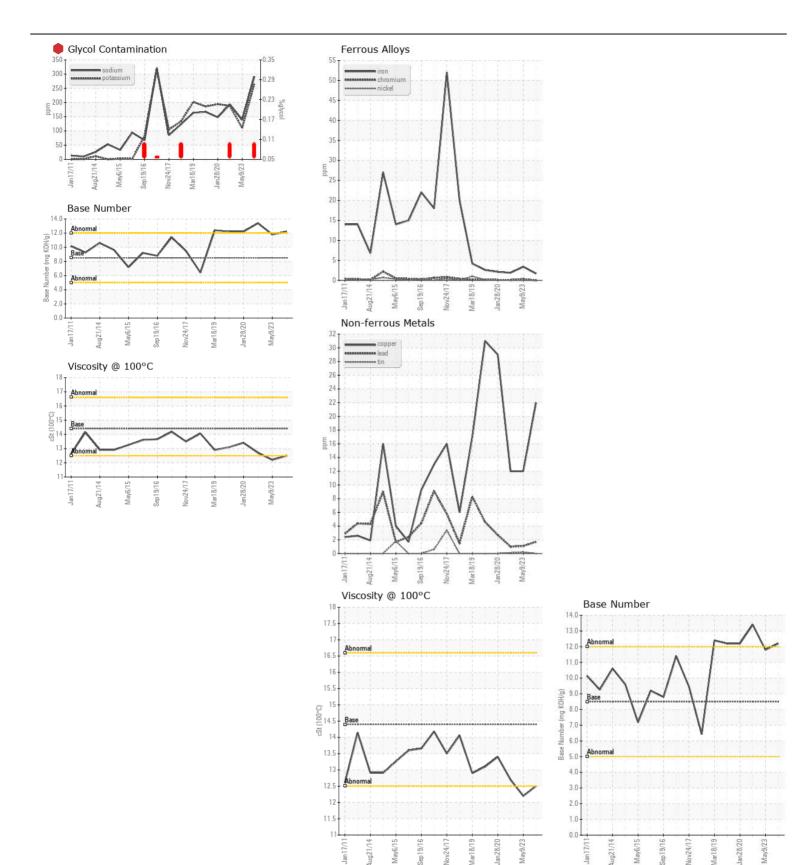
12.5

ASTM D445 14.4

Visc @ 100°C cSt

**12.2** 

12.7







Certificate L2367

Report Id: SALWIN [WUSCAR] 06064865 (Generated: 01/20/2024 05:08:40) Rev: 1

Laboratory Sample No. Lab Number **Unique Number** 

: 06064865 : 10836247

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0841895 Recieved : 18 Jan 2024 Diagnosed : 19 Jan 2024 Diagnostician

: Wes Davis Test Package : FLEET ( Additional Tests: Glycol )

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)

SALEM NATIONALEASE CORPORATION

198 PARK PLAZA DRIVE WINSTON SALEM, NC

US 27105

Contact: Audrey Hopkins Audrey.Hopkins@salemcorp.com

> T: (336)767-9642 F: x:

Contact/Location: Audrey Hopkins - SALWIN