WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

Machine Id

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	OOW	Client Info	LIIIIU/ADII	WC0929321	WC0841787	WC074209
	Sample Date		Client Info		04 May 2024	17 Nov 2023	19 May 202
	Machine Age	mls	Client Info		210190	162699	115623
	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				NORMAL	NORMAL	NORMAL
WEAR	Iron	nnm	ACTM DE10Em	. 100	07	22	47
WEAR	Iron Chromium	ppm	ASTM D5185m		37 2	33 2	47
All component wear rates are normal.	Nickel	ppm	ASTM D5185m ASTM D5185m				0
	Titanium	ppm	ASTM D5185m	>4	<1 <1	<1 <1	<1
	Silver	ppm	ASTM D5185m	. 2	1	0	0
	Aluminum	ppm	ASTM D5185m		9	10	13
	Lead		ASTM D5185m		<1	<1	0
	Copper	ppm	ASTM D5185m		15	30	48
	Tin	ppm	ASTM D5185m		1	<1	<1
	Vanadium	ppm	ASTM D5185m	>10	<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
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.	Silicon	ppm	ASTM D5185m		8	7	6
	Potassium	ppm	ASTM D5185m		16	23	40
	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol	0/	WC Method	0	NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.7	1	1
	Nitration	Abs/cm	*ASTM D7624		10.5	10.3	10.7
	Sulfation	Abs/.1mm	*ASTM D7415		23.4	22.9	22.7
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris Sand/Dirt	scalar	*Visual *Visual	NONE NONE	NONE NONE	NONE NONE	NONE
	Appearance	scalar scalar	*Visual	NORML	NORML	NORML	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water			>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		1	<1	3
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		96	0	<1
The BN result indicates that there is suitable alkalinity remaining in the	Barium	ppm	ASTM D5185m		0	0	0
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Made de el encours		ASTM D5185m	100	85	64	67
	Molybdenum	ppm			.4	-4	4
	Manganese	ppm	ASTM D5185m	450	<1	<1	1
	Manganese Magnesium	ppm	ASTM D5185m ASTM D5185m		706	1011	1062
	Manganese Magnesium Calcium	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	3000	706 1362	1011 1073	1062 1249
	Manganese Magnesium Calcium Phosphorus	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	3000 1150	706 1362 966	1011 1073 827	1062 1249 1012
	Manganese Magnesium Calcium	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	3000 1150 1350	706 1362	1011 1073	1062 1249

Base Number (BN) mg KOH/g ASTM D2896 8.5

ASTM D445 14.4

Visc @ 100°C cSt

6.8

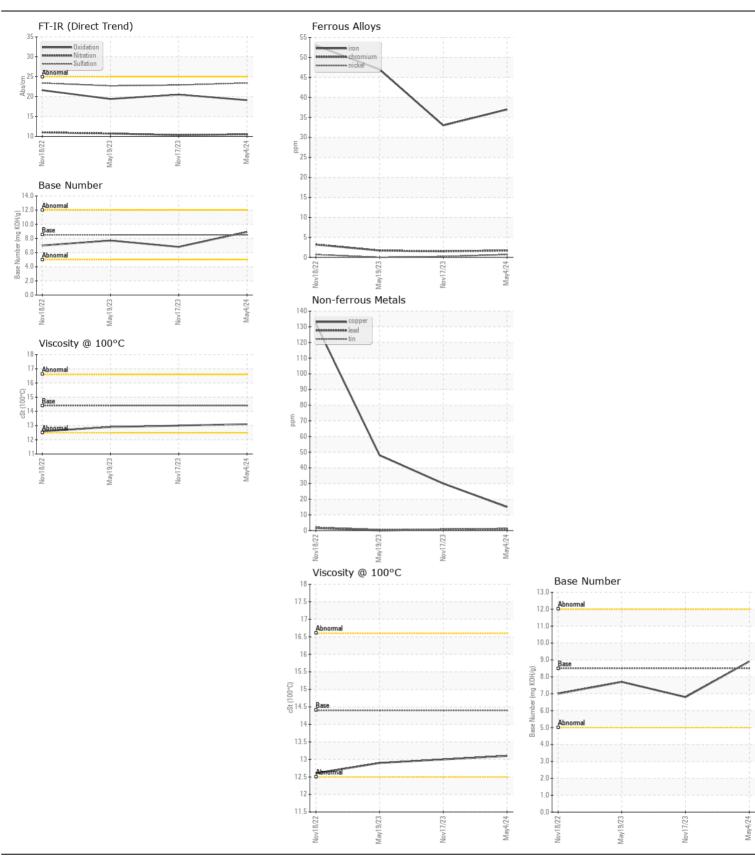
13.0

8.9

13.1

7.7

12.9







Certificate L2367

Laboratory Sample No.

: WC0929321 Lab Number : 06190064 Unique Number : 11046816 Test Package : FLEET

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 23 May 2024 **Tested** : 25 May 2024

: 25 May 2024 - Wes Davis Diagnosed

SALEM NATIONALEASE CORPORATION

198 PARK PLAZA DRIVE WINSTON SALEM, NC

US 27105

Contact: Audrey Hopkins Audrey.Hopkins@salemcorp.com

T: (336)767-9642

* - 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] 06190064 (Generated: 05/25/2024 00:36:25) Rev: 1

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