WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

Machine Id

31949 Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
RECOMMENDATION	Sample Number	OOW	Client Info	LIIIIII/ADII	WC0939032	WC0829538	WC082965
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 Date		Client Info		08 Jun 2024	01 Mar 2024	04 Nov 202
	Machine Age	mls	Client Info		119452	85162	54594
	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	ppm	ASTM D5185m	>100	42	42	52
	Chromium	ppm	ASTM D5185m		1	2	3
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	0	0
	Titanium	ppm	ASTM D5185m	- '	<1	<1	<1
	Silver	ppm	ASTM D5185m	>3	<1	0	0
	Aluminum	ppm	ASTM D5185m		24	35	82
	Lead	ppm	ASTM D5185m		0	<1	0
	Copper	ppm	ASTM D5185m		51	90	140
	Tin	ppm	ASTM D5185m		<1	0	<1
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION  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	>25	8	6	7
	Potassium	ppm	ASTM D5185m		51	70	177
	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	8.0	0.5	0.6
	Nitration	Abs/cm	*ASTM D7624	>20	9.8	10.1	9.6
	Sulfation	Abs/.1mm	*ASTM D7415	>30	24.7	23.9	21.7
	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	NORMI
	Odor	scalar	*Visual	NORML	NORML	NORML	NORMI
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>158	3	3	2
The DNI requisit indicates that there is suitable all all all all all all all all all a	Boron	ppm	ASTM D5185m	250	85	137	6
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	2
	Molybdenum	ppm	ASTM D5185m	100	94	113	60
	Manganese	ppm	ASTM D5185m		2	1	<1
	Magnesium	ppm	ASTM D5185m		519	799	848
	Calcium	ppm	ASTM D5185m		1477	1658	1162
	Phosphorus	ppm	ASTM D5185m		993	802	863
	Zinc	ppm	ASTM D5185m		1237	969	1069
	Sulfur	ppm	ASTM D5185m		3091	2851	2378
	Oxidation	Abs/.1mm	*ASTM D7414	>25	20.2	19.6	19.4

7.6

13.6

6.0

13.8

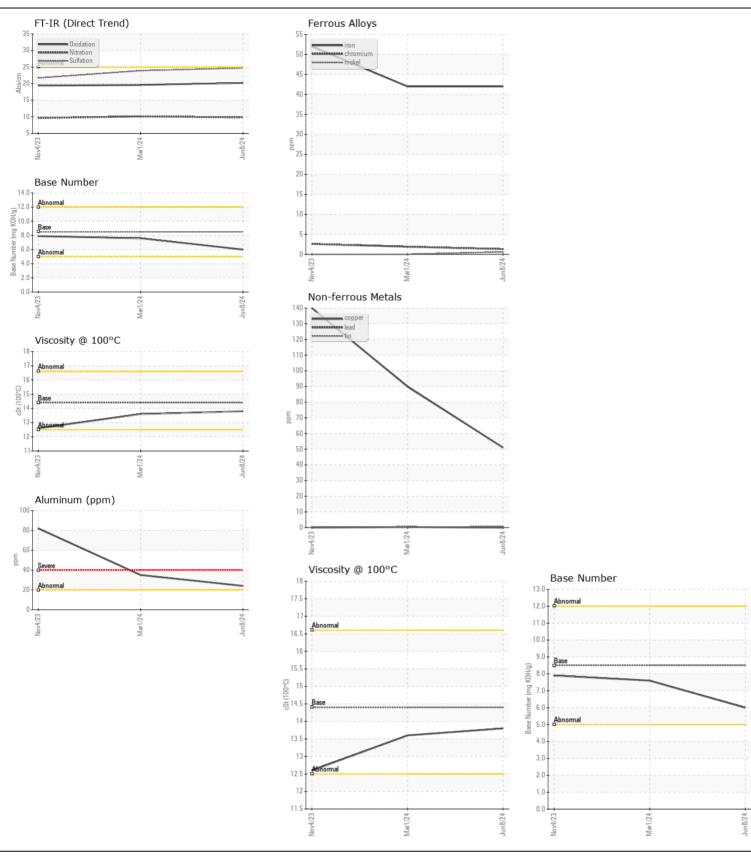
Base Number (BN) mg KOH/g ASTM D2896 8.5

ASTM D445 14.4

Visc @ 100°C cSt

7.9

12.6







Certificate L2367

Report Id: SALWIN [WUSCAR] 06217553 (Generated: 06/24/2024 22:26:22) Rev: 1

Laboratory Sample No.

: WC0939032 Lab Number : 06217553 Unique Number : 11090417 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 21 Jun 2024 **Tested** : 24 Jun 2024

Diagnosed : 24 Jun 2024 - Wes Davis

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)

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