

WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

Machine Id

4861

Component
Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
RECOMMENDATION	Sample Number	OOW	Client Info	LIIIII/ADII	WC0946099	WC0906441	WC0871998
Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm. Please specify the component make and model with your next sample.	Sample Date		Client Info		21 Jun 2024	05 Apr 2024	20 Jan 2024
	Machine Age	mls	Client Info		34695	23501	11661
	Oil Age	mls	Client Info		11194	11846	11661
	Filter Age	mls	Client Info		11194	11846	11661
	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	7	12	12
WLAN	Chromium	ppm	ASTM D5185m		، <1	<1	<1
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m		0	<1	0
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m	>3	0	<1	0
	Aluminum	ppm	ASTM D5185m		16	12	9
	Lead	ppm	ASTM D5185m	>40	0	<1	<1
	Copper	ppm	ASTM D5185m	>330	<1	4	11
	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
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	5	7	12
	Potassium	ppm	ASTM D5185m		35	26	21
	Fuel	PP	WC Method		<1.0	0.7	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.2	0.2	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	7.2	7.1	7.9
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.6	21.1	22.3
	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	>216	<1	<1	1
The DNI would be the Asset that the contract the like the British was a below to the	Boron	ppm	ASTM D5185m	250	334	311	74
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	<1	<1
	Molybdenum	ppm	ASTM D5185m	100	91	95	43
	Manganese	ppm	ASTM D5185m		0	1	4
	Magnesium	ppm	ASTM D5185m		376	374	538
	Calcium	ppm	ASTM D5185m		1343	1354	1580
	Phosphorus	ppm	ASTM D5185m		939	1031	727
	Zinc	ppm	ASTM D5185m		1271	1147	917
	Sulfur	ppm Aha/1mm	ASTM D5185m		3093	3378	2313
	Oxidation Base Number (BN)	Abs/.1mm	*ASTM D7414 ASTM D2896		15.8 7.1	15.9 7.4	21.1 9.3
	Dase Nulliber (DIV)	my NOTI/y	70 LINI D5030	0.0	7.1	7.4	0.0

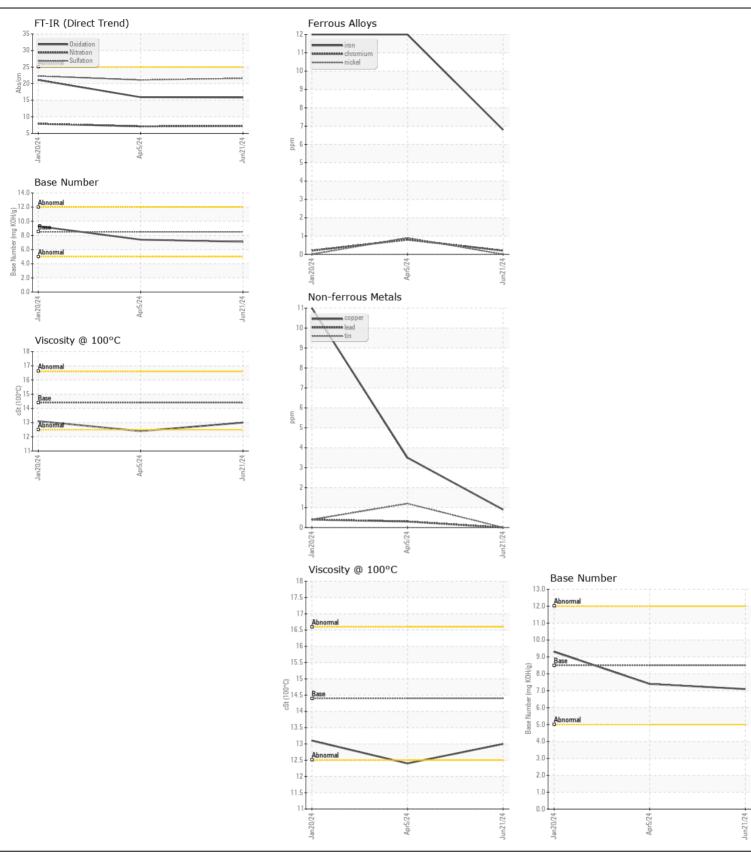
Visc @ 100°C cSt

ASTM D445 14.4

13.0

12.4

13.1







Certificate L2367

Laboratory Sample No.

: WC0946099 Lab Number : 06221016 Unique Number : 11099213 Test Package : FLEET

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

Diagnosed : 27 Jun 2024 - Wes Davis

SALEM NATIONALEASE CORPORATION

198 PARK PLAZA DRIVE WINSTON SALEM, NC

US 27105 Contact: Audrey Hopkins

Audrey.Hopkins@salemcorp.com

* - 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)

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

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