

WEAR CONTAMINATION FLUID CONDITION

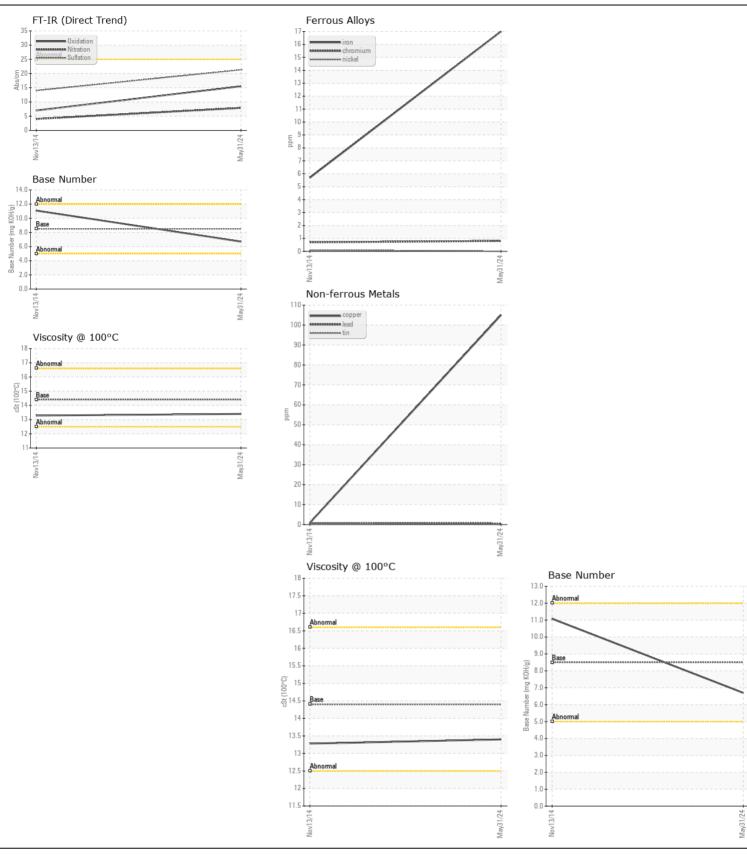
NORMAL NORMAL NORMAL

Machine Id

438

Component
Diesel Engine

Fluid							
DIESEL ENGINE OIL SAE 15W40 (42 QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	Lliatonia	History2
RECOMMENDATION	Sample Number	UCIVI	Client Info	LIIIIIUAUII	WC0903135	History1 WCMFB0049	
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		31 May 2024	13 Nov 2014	
	Machine Age	mls	Client Info		72384	443282	
	Oil Age	mls	Client Info		60000	0	
	Filter Age	mls	Client Info		60000	0	
	Oil Changed	11113	Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status		Oliciti IIIIo		NORMAL	NORMAL	
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WEAR	Iron	ppm	ASTM D5185m	>100	17	6	
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m	>20	<1	<1	
	Nickel	ppm	ASTM D5185m	>4	0	<1	
	Titanium	ppm	ASTM D5185m		3	0	
	Silver	ppm	ASTM D5185m	>3	0	0	
	Aluminum	ppm	ASTM D5185m	>20	6	2	
	Lead	ppm	ASTM D5185m	>40	<1	<1	
	Copper	ppm	ASTM D5185m	>330	105	<1	
	Tin	ppm	ASTM D5185m	>15	0	<1	
	Vanadium	ppm	ASTM D5185m		<1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTANUNATION							
CONTAMINATION	Silicon	ppm	ASTM D5185m		6	3	
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.	Potassium	ppm	ASTM D5185m		10	1	
	Fuel		WC Method		<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol	0/	WC Method	0	NEG	NEG	
	Soot %	%	*ASTM D7844		0.4	0.1	
	Nitration	Abs/cm	*ASTM D7624	>20	7.9	4.	
	Sulfation	Abs/.1mm	*ASTM D7415		21.3	14.	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual *Visual	NONE NORML	NONE NORML	NONE NORML	
	Appearance Odor	scalar scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water		*Visual	>0.2	NEG	NEG	
			Visuai	70.2			
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>158	2	13	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m	250	212	262	
	Barium	ppm	ASTM D5185m	10	0	0	
	Molybdenum	ppm	ASTM D5185m	100	76	64	
	Manganese	ppm	ASTM D5185m		<1	1	
	Magnesium	ppm	ASTM D5185m	450	532	360	
	Calcium	ppm	ASTM D5185m	3000	1589	1693	
	Phosphorus	ppm	ASTM D5185m	1150	1043	1029	
	Zinc	ppm	ASTM D5185m	1350	1284	1175	
	Sulfur	ppm	ASTM D5185m	4250	3741	2308	
	Oxidation	Abs/.1mm	*ASTM D7414		15.5	7.	
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	6.7	11.08	
	Visc @ 100°C	cSt	ASTM D445	14.4	13.4	13.28	







Certificate L2367

Laboratory Sample No.

: WC0903135 Lab Number : 06211142 Unique Number : 11084006 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 14 Jun 2024 **Tested** : 19 Jun 2024

Diagnosed : 19 Jun 2024 - Wes Davis

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)

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