

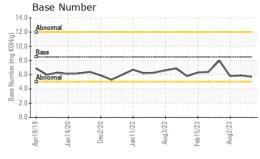
WEAR CONTAMINATION FLUID CONDITION

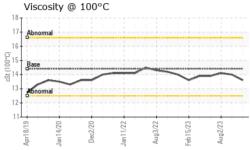
NORMAL NORMAL NORMAL

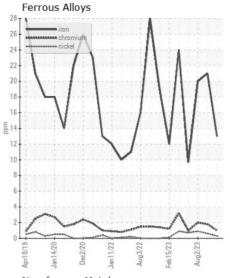
Machine Id **2-251**

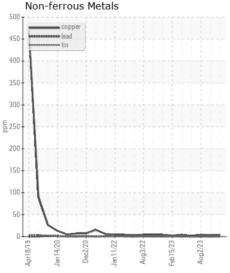
Component
Diesel Engine

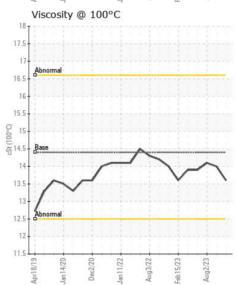
Diesel Engine Fluid DIESEL ENGINE OIL SAE 15W40 (GAL)							
RECOMMENDATION (GAL)	Test	UOM	Method	Limit/Abn	Current	History1	History2
RECOMMENDATION	Sample Number	OOW	Client Info	LITTIU/AUTI	WC0834201	WC0847619	
Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Date		Client Info		05 Jan 2024	22 Oct 2023	02 Aug 2023
	Machine Age	hrs	Client Info		0	17470	16711
	Oil Age	hrs	Client Info		0	699	761
	Filter Age	hrs	Client Info		0	699	761
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	ABNORMAL
WEAR				400			
WEAR	Iron	ppm	ASTM D5185m		13	21	20
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		1	2	2
	Nickel	ppm	ASTM D5185m	>4	<1	<1	<1
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		9	13	
	Lead	ppm	ASTM D5185m ASTM D5185m		0 3	0	0
	Copper Tin	ppm	ASTM D5185m		ง <1	<1	<1
	Vanadium	ppm	ASTM D5185m	>10	0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	6	6	7
Elevated aluminum (AI) 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	>20	21	50	1 56
	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		0.4	0.9	0.9
	Nitration	Abs/cm		>20	9.8	10.4	10.1
	Sulfation	Abs/.1mm	*ASTM D7415		22.3	24.3	23.5
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance Odor	scalar scalar	*Visual *Visual	NORML NORML	NORML	NORML NORML	NORML NORML
	Emulsified Water			>0.2	NORML NEG	NEG	NEG
		Scalai	Visuai	70.2			INLO
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>158	7	17	4 7
The DN regult indicates that there is suitable alliable remaining in the	Boron	ppm	ASTM D5185m	250	26	23	22
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	0	0
	Molybdenum	ppm	ASTM D5185m	100	7	16	20
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		787	778	740
	Calcium	ppm	ASTM D5185m		1356	1388	1360
	Phosphorus	ppm	ASTM D5185m		795	833	715
	Zinc	ppm	ASTM D5185m		887	907	865
	Sulfur	ppm	ASTM D5185m		3019	3569	3194
	Oxidation	Abs/.1mm	*ASTM D7414		18.0	19.2	17.8
	Base Number (BN)				5.7	5.9	5.8
	Visc @ 100°C	cSt	ASTM D445	14.4	13.6	14.0	14.1

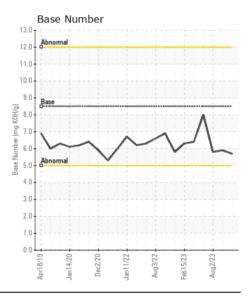
















Certificate L2367

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

: WC0834201 : 06063362 : 10834744 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 17 Jan 2024 Diagnosed : 18 Jan 2024 : Wes Davis Diagnostician

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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