

WEAR CONTAMINATION FLUID CONDITION **NORMAL NORMAL NORMAL**

Component Diesel Engine

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.	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0828105	-	WC0723380
	Sample Date		Client Info		24 Oct 2023	09 Feb 2023	18 Nov 202
	Machine Age	mls	Client Info		0	39506	34480
	Oil Age	mls	Client Info		0	0	0
	Filter Age	mls	Client Info		0	0	0
	Oil Changed		Client Info		Not Changd	Changed	Not Change
	Filter Changed		Client Info		Not Changd	Changed	Not Change
	Sample Status				NORMAL	ABNORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	19	22	14
	Chromium	ppm	ASTM D5185m		<1	<1	<1
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.	Nickel	ppm	ASTM D5185m		<1	0	<1
	Titanium	ppm	ASTM D5185m		58	0	<1
	Silver	ppm	ASTM D5185m	>3	0	0	<1
	Aluminum	ppm	ASTM D5185m	>20	8	12	8
	Lead	ppm	ASTM D5185m	>40	<1	0	<1
	Copper	ppm	ASTM D5185m	>330	3	10	9
	Tin	ppm	ASTM D5185m	>15	<1	0	<1
	Vanadium	ppm	ASTM D5185m		<1	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Silicon	ppm	ASTM D5185m	>25	8	9	7
	Potassium	ppm	ASTM D5185m	>20	20	27	19
	Fuel		WC Method	>5	<1.0	△ 3.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.3	0.2	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	9.6	9.3	8.9
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.4	20.7	20.9
	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	>216	2	3	3
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	58	56	79
	Barium	ppm	ASTM D5185m	10	0	0	0
	Molybdenum	ppm	ASTM D5185m	100	7	9	10
	Manganese	ppm	ASTM D5185m		<1	1	<1
	Magnesium	ppm	ASTM D5185m	450	503	686	688
	Calcium	ppm	ASTM D5185m		1525	1298	1358
			AOTAL DELOE	4450	004	077	1010
	Phosphorus	ppm	ASTM D5185m		994	977	1012
	Zinc	ppm	ASTM D5185m	1350	1187	1185	1214
				1350			

Oxidation

Visc @ 100°C cSt

15.9

5.0

12.8

Abs/.1mm *ASTM D7414 >25

ASTM D445 14.4

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

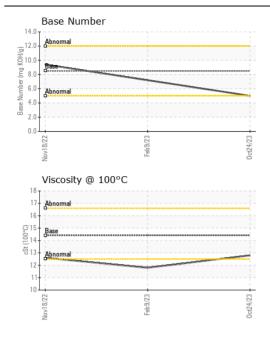
13.6 9.4

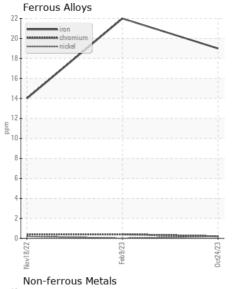
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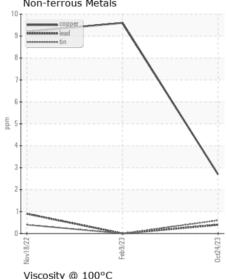
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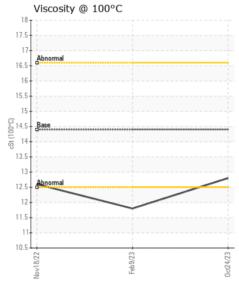
7.2

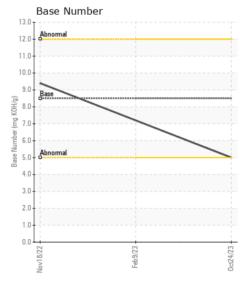
11.8













Certificate L2367

Laboratory

Sample No.

: WC0828105 Lab Number : 06089457 Unique Number : 10876902 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 14 Feb 2024 : 15 Feb 2024 **Tested**

: 15 Feb 2024 - Wes Davis Diagnosed

CASWELL COUNTY SCHOOL BUS

353 COUNTY HOME ROAD YANCEYVILLE, NC

US 27379 Contact: DEBRA MOORE

debra.moore@caswell.k12.nc.us

T: (336)694-4116

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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