

WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL NORMAL

[5706123]

Component
Diesel Fngine

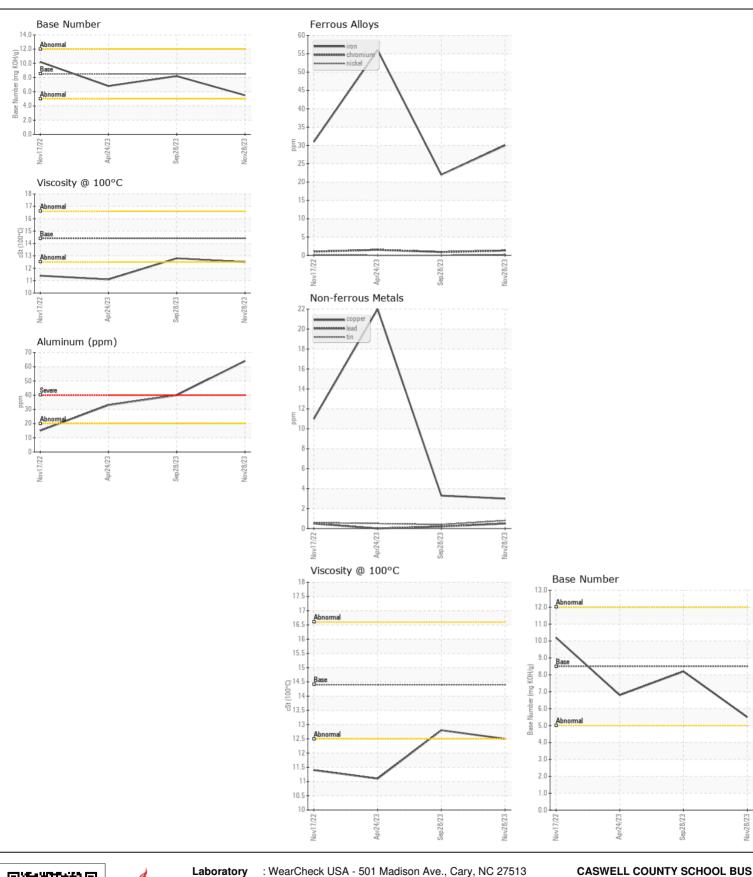
DIESEL ENGINE OIL SAE 15W40 (QTS)							
Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.		UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0828079	WC0828115	WC0799987
	Sample Date	la	Client Info		28 Nov 2023	28 Sep 2023	24 Apr 2023
	Machine Age	mls	Client Info		24756	19592	10549
	Oil Age Filter Age	mls mls	Client Info		0	0	0
	Oil Changed	11115	Client Info		Not Changd	Not Changd	Not Change
	Filter Changed		Client Info		Not Change	Not Changd	Not Change
	Sample Status		Oliciti iiilo		NORMAL	NORMAL	ABNORMAL
WEAR	Iron	nnm	ASTM D5185m	. 100	30	22	 56
WEAN	Chromium	ppm	ASTM D5185m		1	<1	2
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m		<1	0	0
	Titanium	ppm	ASTM D5185m	77	61	59	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		64	40	33
	Lead	ppm	ASTM D5185m		<1	<1	0
	Copper	ppm	ASTM D5185m	>330	3	3	22
	Tin	ppm	ASTM D5185m	>15	<1	<1	<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	Silicon	ppm	ASTM D5185m	>25	10	9	33
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		165	117	120
	Fuel		WC Method		<1.0	<1.0	<u>^</u> 2.7
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.3	0.2	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	8.1	7.2	10.3
	Sulfation	Abs/.1mm	*ASTM D7415	>30	17.9	18.3	21.5
	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
<u> </u>	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		3	3	7
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		91	125	34
	Barium	ppm	ASTM D5185m		0	0	4
	Molybdenum	ppm	ASTM D5185m	100	10	11	47
	Manganese	ppm	ASTM D5185m	450	1	1	6
	Magnesium	ppm	ASTM D5185m		490	499	843
	Calcium Phosphorus	ppm	ASTM D5185m ASTM D5185m		1501	1551 950	1228 724
	Zinc	ppm	ASTM D5185m		976 1144	1150	895
	Sulfur	ppm	ASTM D5185m		3541	3510	2785
	Oxidation	Abs/.1mm	*ASTM D3163111		13.9	13.7	21.2
	Base Number (BN)				5.5	8.2	6.8
	Dado Hamber (DIV)	mg nong	.101111 02000	0.0	0.0	0.2	0.0

12.8

12.5

Visc @ 100°C cSt ASTM D445 14.4

11.1







Certificate L2367

Laboratory Sample No.

Lab Number : 06089471 Unique Number: 10876916 Test Package : FLEET

: WC0828079

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

: 15 Feb 2024 - Wes Davis Diagnosed

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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