

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

[62005697039]

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Component Diesel Engine

DIESEL ENGINE OIL SAE 15W40 (--- QTS)

RECOMMENDATION

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.

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All component wear rates are normal.

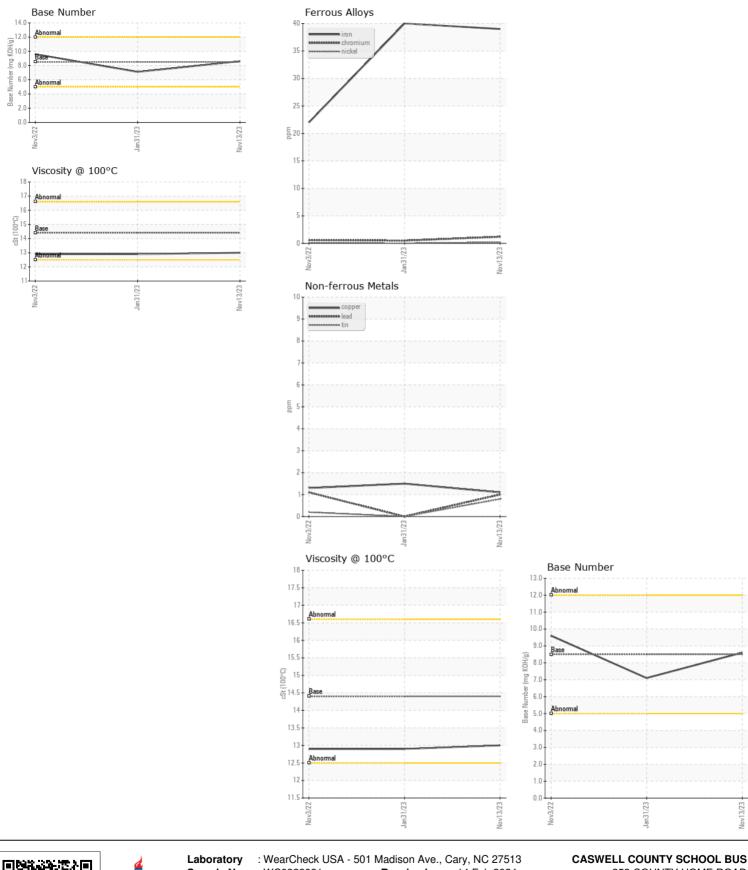
CONTAMINATION

There is no indication of any contamination in the oil.

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0828091	WC0723363	WC0723374
Sample Date		Client Info		13 Nov 2023	31 Jan 2023	03 Nov 2022
Machine Age	mls	Client Info		0	204647	199454
Oil Age	mls	Client Info		0	0	0
Filter Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	N/A	Not Changd
Filter Changed		Client Info		Changed	N/A	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
 			400	•••	40	
Iron	ppm	ASTM D5185m	>100	39	40	22
Chromium	ppm	ASTM D5185m	>20	1	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	<1
Titanium	ppm	ASTM D5185m	0	61	0	0
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	12	7	3
Lead	ppm	ASTM D5185m	>40	1	0	1
Copper	ppm	ASTM D5185m	>330	1	2	1
Tin	ppm	ASTM D5185m	>15	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1 NONE		
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
 Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	5	5	4
Potassium	ppm	ASTM D5185m	>20	4	3	2
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	>3	0.7	1.1	0.8
Nitration	Abs/cm	*ASTM D7624	>20	9.1	10.5	10.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.5	21.1	22.4
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
Sodium	ppm	ASTM D5185m	>158	3	4	4
Boron	ppm		250	89	44	58
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	9	21	20
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	450	472	630	638
Calcium	ppm	ASTM D5185m	3000	1522	1560	1507
Phosphorus	ppm	ASTM D5185m	1150	1025	1042	1030
Zinc	ppm	ASTM D5185m	1350	1177	1263	1299
Sulfur	ppm	ASTM D5185m	4250	3677	4048	4331
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.9	15.1	14.6
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.6	7.1	9.6
Visc @ 100°C	cSt	ASTM D445	14.4	13.0	12.9	12.9
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Sample No. : WC0828091 Received 353 COUNTY HOME ROAD : 14 Feb 2024 Lab Number : 06089469 : 15 Feb 2024 YANCEYVILLE, NC Tested Unique Number : 10876914 : 15 Feb 2024 - Wes Davis US 27379 Diagnosed Test Package : FLEET Contact: DEBRA MOORE Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. debra.moore@caswell.k12.nc.us * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (336)694-4116 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

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Contact/Location: DEBRA MOORE - CASYANNC