

Machine Id FREIGHTLINER 734 Component Diesel Engine Fluid DIESEL ENGINE OIL SAE 15W40 (17 QTS)

RECOMMENDATION

We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

W	E)	Α	R

All component wear rates are normal.

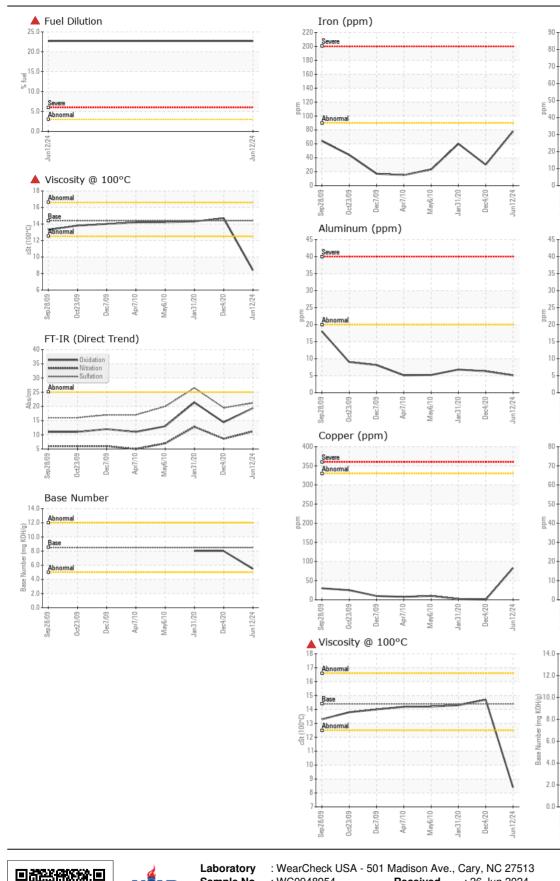
CONTAMINATION

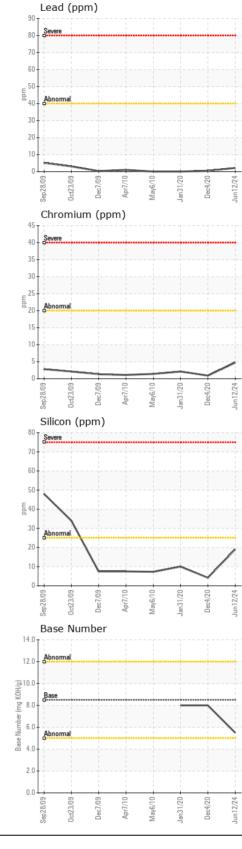
There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0948954	WC0527361	WC0426587
Sample Date		Client Info		12 Jun 2024	04 Dec 2020	31 Jan 2020
Machine Age	mls	Client Info		293793	56289	51563
Oil Age	mls	Client Info		0	0	0
Filter Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Change
Filter Changed		Client Info		Not Changd	Not Changd	Not Change
Sample Status				SEVERE	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>90	78	30	60
Chromium	ppm	ASTM D5185m	>20	5	<1	2
Nickel	ppm	ASTM D5185m	>2	0	<1	<1
Titanium	ppm	ASTM D5185m	>2	0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	5	6	7
Lead	ppm	ASTM D5185m	>40	2	<1	0
Copper	ppm	ASTM D5185m	>330	83	<1	2
Tin	ppm	ASTM D5185m	>15	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	19	4	10
Potassium	ppm	ASTM D5185m	>20	3	3	5
Fuel	%	ASTM D3524	>3.0	22.7	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>6	0.7	0.4	2.1
Nitration	Abs/cm	*ASTM D7624	>20	11.2	8.6	12.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.2	19.5	26.5
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
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m	>158	4	4	8
Boron	ppm	ASTM D5185m	250	41	77	6
Barium	ppm	ASTM D5185m	10	2	0	0
Molybdenum	ppm	ASTM D5185m	100	69	89	63
Manganese	ppm	ASTM D5185m		3	<1	<1
Magnesium	ppm	ASTM D5185m	450	231	34	691
Calcium	ppm	ASTM D5185m	3000	1439	2306	1494
Phosphorus	ppm	ASTM D5185m	1150	716	1072	896
Zinc	ppm	ASTM D5185m	1350	840	1263	1100
Sulfur	ppm	ASTM D5185m	4250	2695	3564	2524
Oxidation	Abs/.1mm	*ASTM D310311	>25	19.4	14.4	21.4
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	5.5	8	8
Visc @ 100°C	cSt	ASTM D2000	14.4	▲ 8.4	14.7	14.3
	001	10 HM D440	17.4		17.7	1-1.0





WAKE COUNTY PUBLIC SCHOOL SYSTEM Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : WC0948954 Received : 26 Jun 2024 1551 ROCK QUARRY ROAD Lab Number : 06220863 RALEIGH, NC Tested : 28 Jun 2024 : 28 Jun 2024 - Wes Davis US 27610 Unique Number : 11099060 Diagnosed Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel, TBN) Contact: DEVIN WEBER Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. dweber@wcpss.net * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (919)856-8076 F: x: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: DEVIN WEBER - WCPRAL Page 2 of 2