



RECOMMENDATION

Machine Id MACK 6383 Component Diesel Engine Fluid

CASTROL VECTON 15W40 CK4 (40 QTS)

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.

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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.

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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.

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0813371	WC0813351	WC0666211
Sample Date		Client Info		16 Jan 2024	16 Oct 2023	21 Mar 2023
Machine Age	hrs	Client Info		8140	8551	3065
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed	-	Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status		0.10111110		SEVERE	SEVERE	SEVERE
Iron	ppm	ASTM D5185m	>120	3	4	5
Chromium	ppm	ASTM D5185m	>20	0	<1	0
Nickel	ppm	ASTM D5185m	>5	0	<1	0
Titanium	ppm	ASTM D5185m	>2	<1	<1	1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	5	3
Lead	ppm	ASTM D5185m	>40	<1	<1	2
Copper	ppm	ASTM D5185m	>330	<1	<1	1
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	6	5	4
Potassium	ppm	ASTM D5185m	>20	1	1	<1
Fuel	%	ASTM D3524	>3.0	• 16.6	21.4	19.6
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>4	0.1	0.1	0.2
Nitration	Abs/cm	*ASTM D7624	>20	8.3	8.7	8.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.3	19.0	19.7
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
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Sodium	ppm	ASTM D5185m		4	4	0
Boron	ppm	ASTM D5185m		26	17	21
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		39	38	39
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		476	424	437
Calcium	ppm	ASTM D5185m		1242	1174	1224
Phosphorus	ppm	ASTM D5185m		679	605	577
Zinc	ppm	ASTM D5185m		804	728	759
Sulfur	ppm	ASTM D5185m		2048	2006	1715
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.2	16.2	16.5
Base Number (BN)	mg KOH/g	ASTM D2896	10	6.4	5.3	4.8
	oQt	ACTM D445	155		9.6	6 0 0

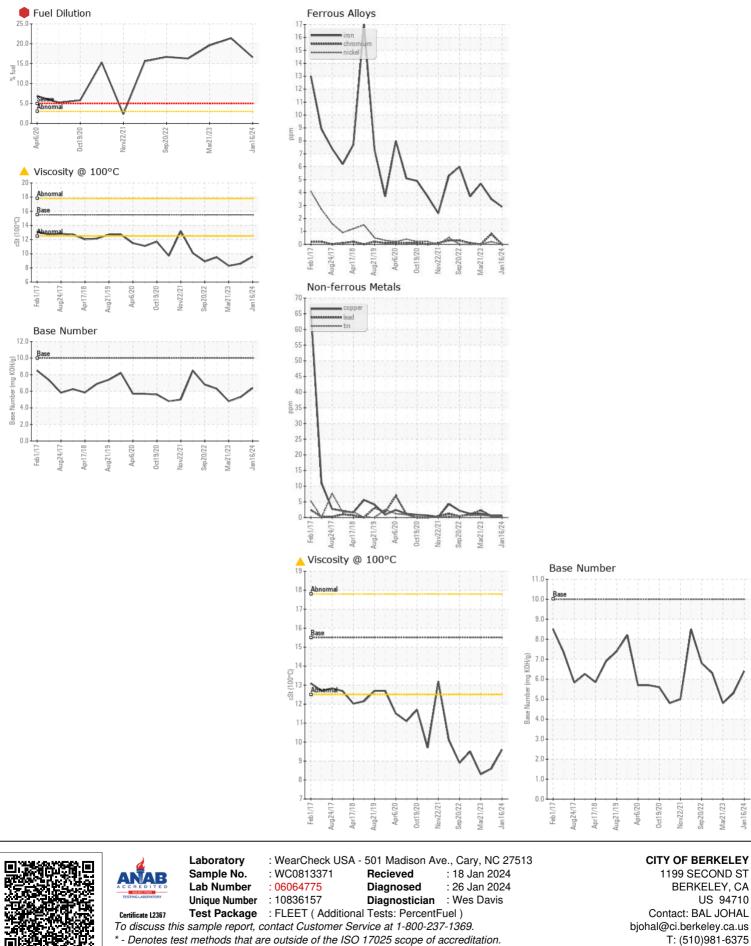
ASTM D445 15.5

Visc @ 100°C cSt

8.6 🛑

8.3

6.9 💧



^{* -} 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)

Contact/Location: BAL JOHAL - CITBER

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