

Machine Id 2016 FREIGHTLINER 3833 Component Diesel Engine Fluid CHEVRON DELO 400 XLE 10W30 (40 QTS) RECOMMENDATION

	Gampio Hambol			
Oil and filter change at the time of sampling has been noted. No	Sample Date		(
corrective action is recommended at this time. Resample at the next service interval to monitor.	Machine Age	mls	(
service interval to monitor.	Oil Age	mls	(
	Filter Age	mls	(
	Oil Changed			
	Filter Changed			
	Sample Status			
WEAR	Iron	ppm		
	Chromium	ppm		
Cylinder, crank, or cam shaft wear is indicated. All other component	Nickel	ppm		
wear rates are normal.	Titerstowe			

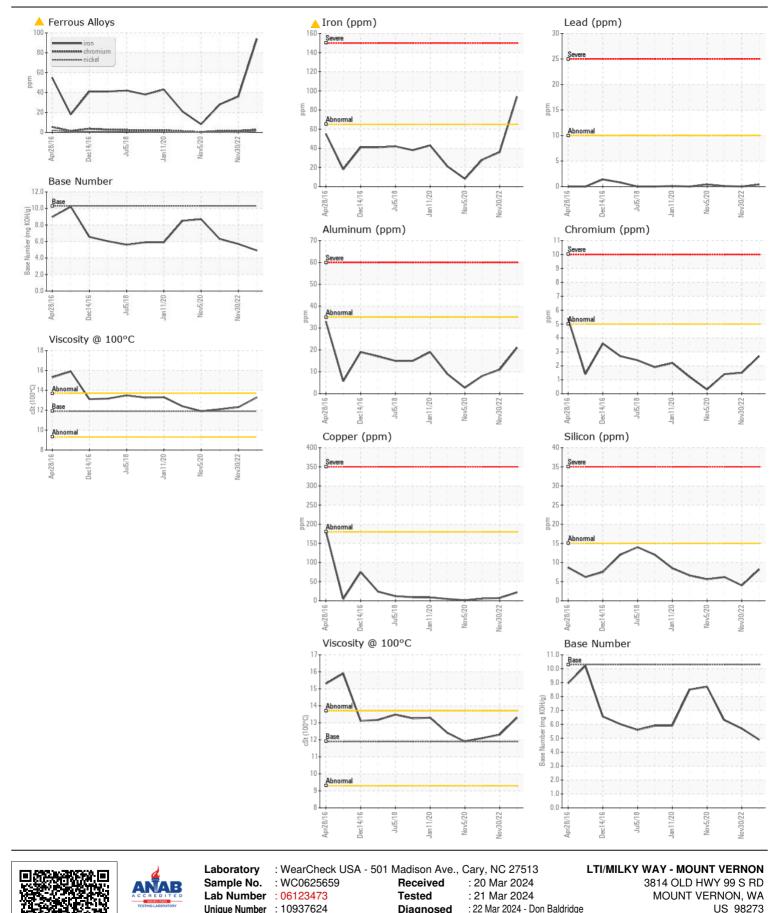
CONTAMINATION

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 acceptable for the time in service.

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0625659	WC0625621	WC0462915
Sample Date		Client Info		29 Feb 2024	30 Nov 2022	18 Jun 2021
Machine Age	mls	Client Info		0	324389	285790
Oil Age	mls	Client Info		36788	50000	31944
Filter Age	mls	Client Info		36788	50000	31944
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>65	<b>▲</b> 94	36	28
Chromium	ppm	ASTM D5185m	>5	3	2	1
Nickel	ppm	ASTM D5185m	>3	1	0	<1
Titanium	ppm	ASTM D5185m	>5	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>35	21	11	8
Lead	ppm	ASTM D5185m	>10	<1	0	<1
Copper	ppm	ASTM D5185m	>180	22	7	6
Tin	ppm	ASTM D5185m	>8	<1	<1	<1
Vanadium	ppm	ASTM D5185m	NIGNE	<1 NONE	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>15	8	4	6
Potassium	ppm	ASTM D5185m	>20	11	10	8
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	2.3	1.6	1
Nitration	Abs/cm	*ASTM D7624	>20	12.9	11.5	10.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	28.5	27.5	23.4
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	nom	ASTM D5185m		4	2	3
Boron	ppm	ASTM D5185m ASTM D5185m		4 20	2 21	45
Barium	ppm	ASTM D5185m		20	0	45
Molybdenum	ppm ppm	ASTM D5185m		8	20	15
Manganese	ppm	ASTM D5185m		2	<1	<1
Magnesium	ppm	ASTM D5185m		717	644	632
Calcium	ppm	ASTM D5185m	2900	1429	1527	1451
Phosphorus	ppm	ASTM D5185m	1100	736	741	702
Zinc	ppm	ASTM D5185m	1200	882	891	823
Sulfur	ppm	ASTM D5185m	4000	3146	3772	2366
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.3	20.1	18
Base Number (BN)	mg KOH/g	ASTM D2896	10.3	4.9	5.7	6.3
Visc @ 100°C	cSt	ASTM D2000	11.9	13.3	12.3	12.1
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: 22 Mar 2024 - Don Baldridge Unique Number : 10937624 Diagnosed Test Package : MOB1+ Contact: JOHN VAN WINGERDEN Certificate L2367 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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