

Machine Id KENWORTH 109 Component Diesel Engine Fluid CHEVRON DELO 400 MULTIGRADE 15W40 (11 GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WC0844107	WC0778895	WC0778885
	Sample Date		Client Info		16 May 2024	11 Sep 2023	11 May 2023
	Machine Age	hrs	Client Info		10380	9791	9251
	Oil Age	hrs	Client Info		450	450	450
	Filter Age	hrs	Client Info		450	450	450
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>90	72	8	90
	Chromium	ppm	ASTM D5185m		3	<1	5
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	<1	0
	Titanium	ppm	ASTM D5185m		0	<1	<1
	Silver	ppm	ASTM D5185m		<1	0	0
	Aluminum	ppm	ASTM D5185m		11	3	29
	Lead		ASTM D5185m		2	<1	2
	Copper	ppm	ASTM D5185m		2	<1	2
	Tin	ppm	ASTM D5185m		2 <1	<1	<1
	Vanadium	ppm	ASTM D5185m	215	0	0	<1
	White Metal	ppm scalar	*Visual	NONE	LIGHT	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m		9	5	10
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		16	7	62
	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>6	1.5	0.3	2.3
	Nitration	Abs/cm	*ASTM D7624	>20	13.1	6.0	12.9
	Sulfation	Abs/.1mm	*ASTM D7415	>30	26.2	16.5	30.9
	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
FLUID CONDITION	Sodium	ppm	ASTM D5185m		6	3	4
	Boron	ppm	ASTM D5185m		19	58	50
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		51	49	10
	Manganese	ppm	ASTM D5185m		1	<1	1
	Magnesium	ppm	ASTM D5185m		1064	993	828
	Calcium	ppm	ASTM D5185m		1038	827	1647
	Phosphorus	ppm	ASTM D5185m	1360	1019	865	811
	Zinc	ppm	ASTM D5185m		1250	1114	986
	Sulfur	ppm	ASTM D5185m	1400	3547	3530	3674
	Oxidation	Abs/.1mm	*ASTM D5185111 *ASTM D7414	>25	20.0	13.5	22.7
	Base Number (BN)	nig KOH/g	ASTINI D2896	12.2	6.31	10.35	7.89

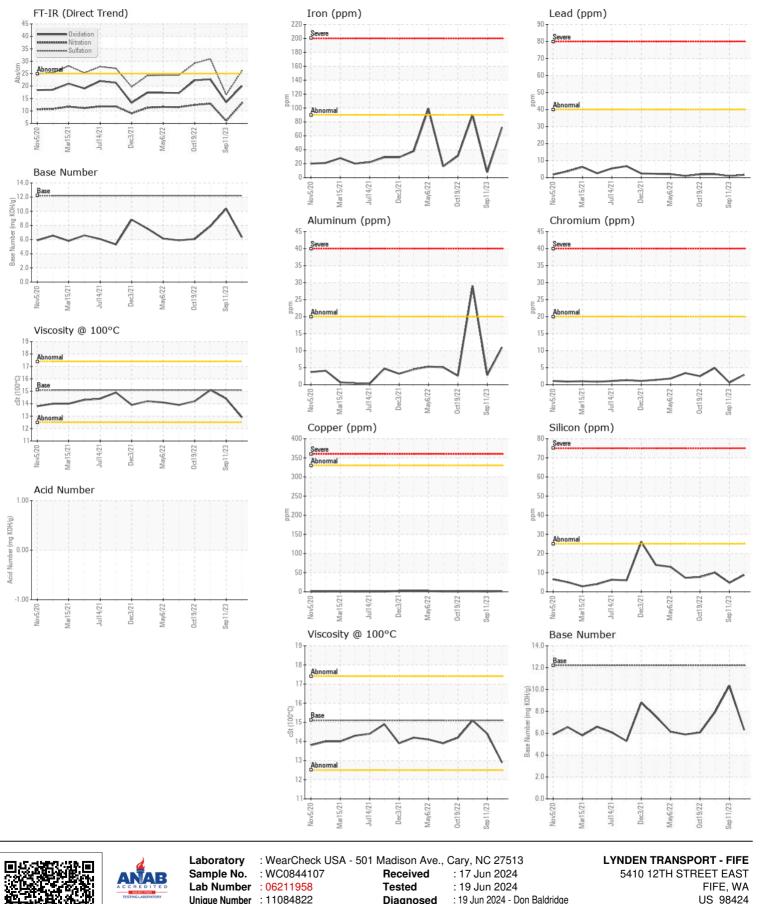
14.4

15.1

12.9

ASTM D445 15.1

Visc @ 100°C cSt



 Unique Number
 : 1084822
 Diagnosed
 : 19 Jun 2024 - Don Baldridge
 US 98424

 Certificate 12367
 Test Package
 : MOB 2 (Additional Tests: TAN Man)
 Contact: CHESTER ANGLEMYER

 To discuss this sample report, contact Customer Service at 1-800-237-1369.
 chestera@ltia.lynden.com

 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.
 T: (253)926-7245

 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)
 F: (253)926-7249

Contact/Location: CHESTER ANGLEMYER - LYNFIF