

## Machine Id **KENWORTH 104** Component **Diesel Engine** Fluid **DIESEL ENGINE OIL SAE 15W40 (44 QTS)**

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WC0844112	WC0778914	WC0778926
	Sample Date		Client Info		11 Jun 2024	24 Jun 2023	20 Mar 2023
	Machine Age	hrs	Client Info		19147	18986	17328
	Oil Age	hrs	Client Info		450	500	450
	Filter Age	hrs	Client Info		450	500	450
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>165	34	29	27
	Chromium	ppm	ASTM D5185m	>5	1	1	1
	Nickel	ppm	ASTM D5185m		1	<1	<1
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m		<1	<1	0
	Aluminum	ppm	ASTM D5185m		6	9	5
	Lead	ppm	ASTM D5185m		5	7	3
	Copper	ppm	ASTM D5185m		3	2	2
	Tin	ppm	ASTM D5185m		<1	1	1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon		ASTM D5185m	<u>_</u> 25	9	8	8
	Potassium	ppm	ASTM D5185m		6	6	5
There is no indication of any contamination in the oil.	Fuel	ppm	WC Method			<1.0	<1.0
	Water		WC Method		<1.0 NEG	NEG	<1.0 NEG
			WC Method	>0.2	NEG	NEG	NEG
	Glycol Soot %	0/		. 7 E	0.7		
		%	*ASTM D7844			0.8	0.7
	Nitration	Abs/cm	*ASTM D7624	>20	10.5	10.4	9.9
	Sulfation	Abs/.1mm	*ASTM D7415		23.6	23.3	22.6
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE NORML	NONE	NONE
	Appearance	scalar	*Visual	NORML	-	NORML	NORML
	Odor Emulsified Water	scalar scalar	*Visual *Visual	NORML	NORML NEG	NORML NEG	NORML NEG
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.							
	Sodium	ppm	ASTM D5185m		4	1	3
	Boron	ppm	ASTM D5185m		26	24	30
	Barium	ppm	ASTM D5185m		0	<1	0
	Molybdenum	ppm	ASTM D5185m	100	0	2	5
	Manganese	ppm	ASTM D5185m		1	<1	<1
	Magnesium	ppm	ASTM D5185m		778	805	801
	Calcium	ppm	ASTM D5185m		1416	1559	1464
	Phosphorus	ppm	ASTM D5185m		785	793	767
	Zinc	ppm	ASTM D5185m		875	947	936
	Sulfur	ppm	ASTM D5185m	4250	3471	3419	3584
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.3	16.4	16.7
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	6.66	7.00	11.48
		~	AOTH DATE			10 5	

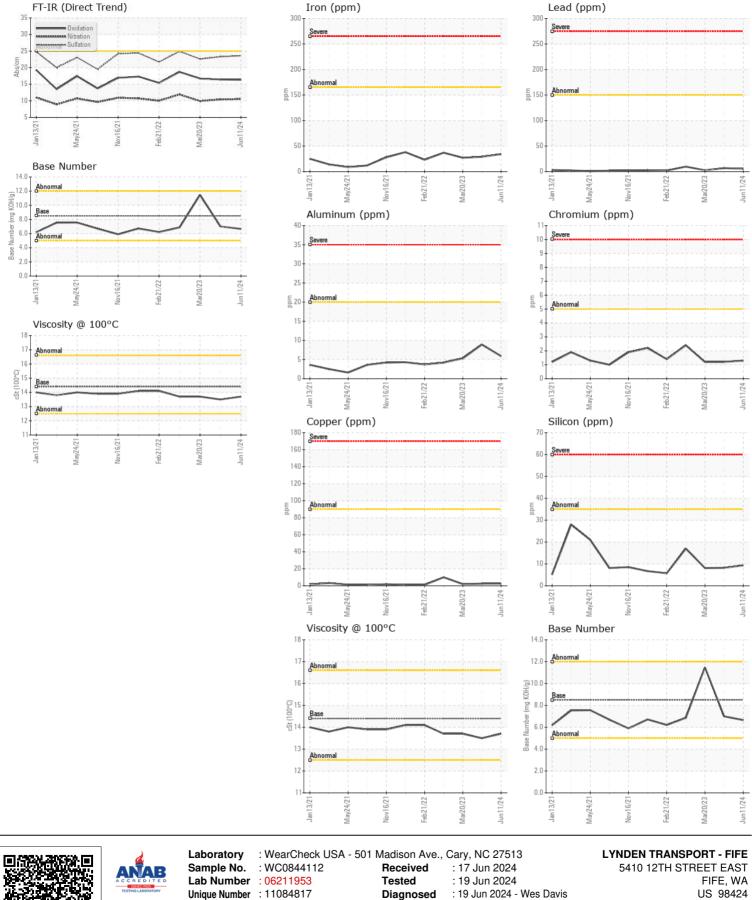
Visc @ 100°C cSt

13.5

13.7

13.7

ASTM D445 14.4





Test Package : MOB 2 Contact: CHESTER ANGLEMYER Certificate L2367 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. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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Contact/Location: CHESTER ANGLEMYER - LYNFIF

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