

Machine Id KENWORTH R10 Component Diesel Engine Fluid DIESEL ENGINE OIL SAE 10W30 (40 QTS)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. Resample	Sample Number		Client Info		LP0001333		LP0000585
at the next service interval to monitor.	Sample Date		Client Info		09 Jan 2024	16 Oct 2023	07 Aug 2023
	Machine Age	hrs	Client Info		8989	8536	8136
	Oil Age	hrs	Client Info		450	433	420
	Filter Age	hrs	Client Info		450	433	420
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron		ASTM D5185m	. 100	44	10	13
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		14 0	<1	<1
	Nickel	ppm	ASTM D5185m		0		< 1
		ppm		>4		<1	
	Titanium	ppm	ASTM D5185m	0	0	<1	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		2	3	
	Lead	ppm	ASTM D5185m		0	<1	0
	Copper	ppm	ASTM D5185m		<1	<1	<1
	Tin	ppm	ASTM D5185m	>15	0	0	0
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	6	7	7
	Potassium	ppm	ASTM D5185m	>20	52	42	17
Test for glycol is negative. There is no indication of any contamination in the oil.	Fuel		WC Method	>5	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol	%	*ASTM D2982		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.4	0.4	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	7.7	7.7	7.6
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.6	18.8	18.9
	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		57	42	18
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		6	1	2
	Barium	ppm	ASTM D5185m		0	10	2
	Molybdenum	ppm	ASTM D5185m	100	66	75	66
	Manganese	ppm	ASTM D5185m		0	0	<1
	Magnesium	ppm	ASTM D5185m		987	1061	974
	Calcium	ppm	ASTM D5185m		1068	1177	1136
	Phosphorus	ppm	ASTM D5185m		1044	1232	1078
	Zinc	ppm	ASTM D5185m		1251	1426	1308
	Sulfur	ppm	ASTM D5185m		3403	4116	3536
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.2	14.8	14.7

9.17

12.0

10.19

11.4

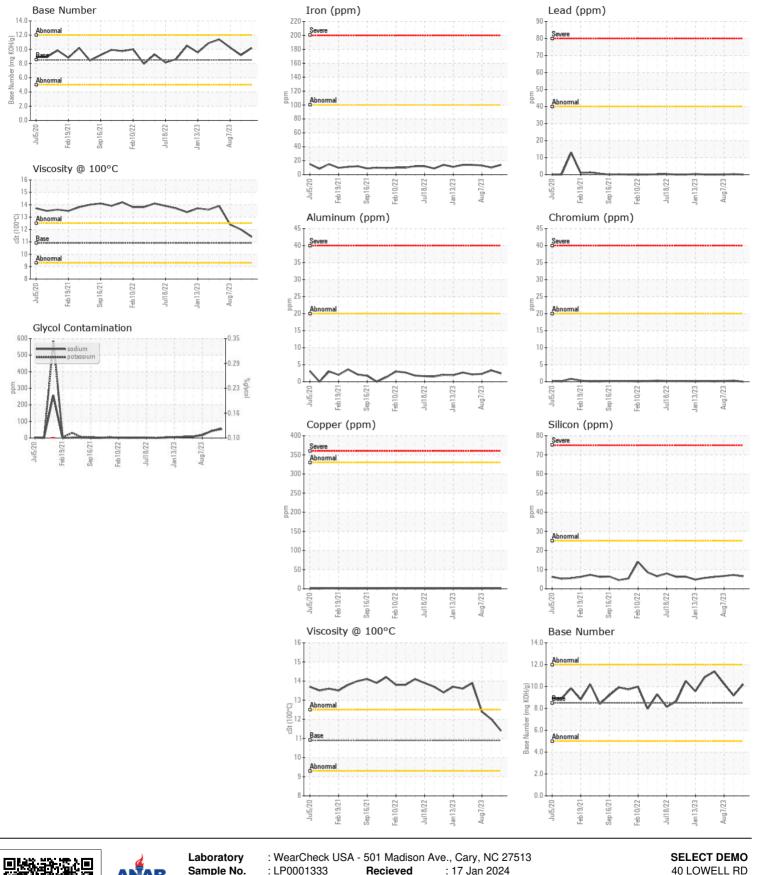
Base Number (BN) mg KOH/g ASTM D2896 8.5

ASTM D445 10.9

Visc @ 100°C cSt

10.25

12.4



: LP0001333 : 17 Jan 2024 40 LOWELL RD Sample No. Recieved SALEM, NH Lab Number : 06063794 Diagnosed : 22 Jan 2024 : 10835176 US 03079 Unique Number Diagnostician : Doug Bogart Test Package : MOB 2 (Additional Tests: Glycol) Contact: STAN DOGIL Certificate L2367 SDOGIL@SELECTDEMOSERVICES.COM 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. T: (603)401-0147 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (603)458-7389

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