WEAR CONTAMINATION FLUID CONDITION

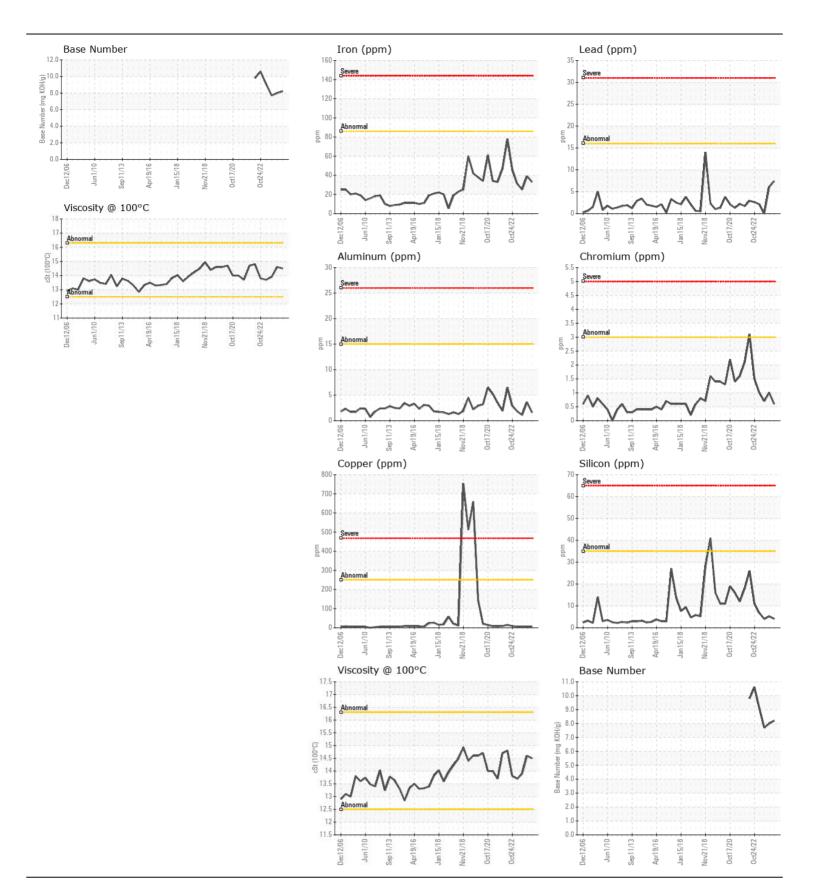
NORMAL NORMAL NORMAL

Machine Id

## **KENWORTH W97**

Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		DC0032187	DC0029773	DC002775
Resample at the next service interval to monitor.	Sample Date		Client Info		02 Jan 2024	19 Aug 2023	21 Apr 202
	Machine Age	mls	Client Info		33230	1014729	997618
	Oil Age	mls	Client Info		18501	16111	16209
	Filter Age	mls	Client Info		18501	16111	16209
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>86	33	39	25
	Chromium	ppm	ASTM D5185m	>3	<1	1	<1
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m	>3	<1	<1	0
	Titanium	ppm	ASTM D5185m	>2	0	0	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>15	2	4	1
	Lead	ppm	ASTM D5185m	>16	7	6	0
	Copper	ppm	ASTM D5185m	>250	5	6	4
	Tin	ppm	ASTM D5185m	>2	1	2	0
	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	ppm	ASTM D5185m	>35	4	5	4
	Potassium	ppm	ASTM D5185m		2	0	0
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		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.6	0.7	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	8.0	7.8	6.6
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.9	20.0	17.5
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		<1	2	2
The DN yearst indicates that there is a vitable all all rich years in the the	Boron	ppm	ASTM D5185m		5	4	2
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		56	63	56
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		914	956	899
	Calcium	ppm	ASTM D5185m		1161	1394	1184
	Phosphorus	ppm	ASTM D5185m		1073	1122	1017
	Zinc	ppm	ASTM D5185m		1313	1369	1251
	Sulfur	ppm	ASTM D5185m		3196	4074	3845
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.3	14.6	13.4
	Base Number (BN)				8.2	8.0	7.7
	Visc @ 100°C	cSt	ASTM D445		14.5	14.6	13.9







Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** 

: DC0032187 : 06064896 : 10836278

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 18 Jan 2024 Diagnosed : 19 Jan 2024 : Wes Davis Diagnostician

Test Package : MOB 1 ( Additional Tests: TBN )

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) FORRY TRANSPORT INC.

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