WEAR CONTAMINATION FLUID CONDITION

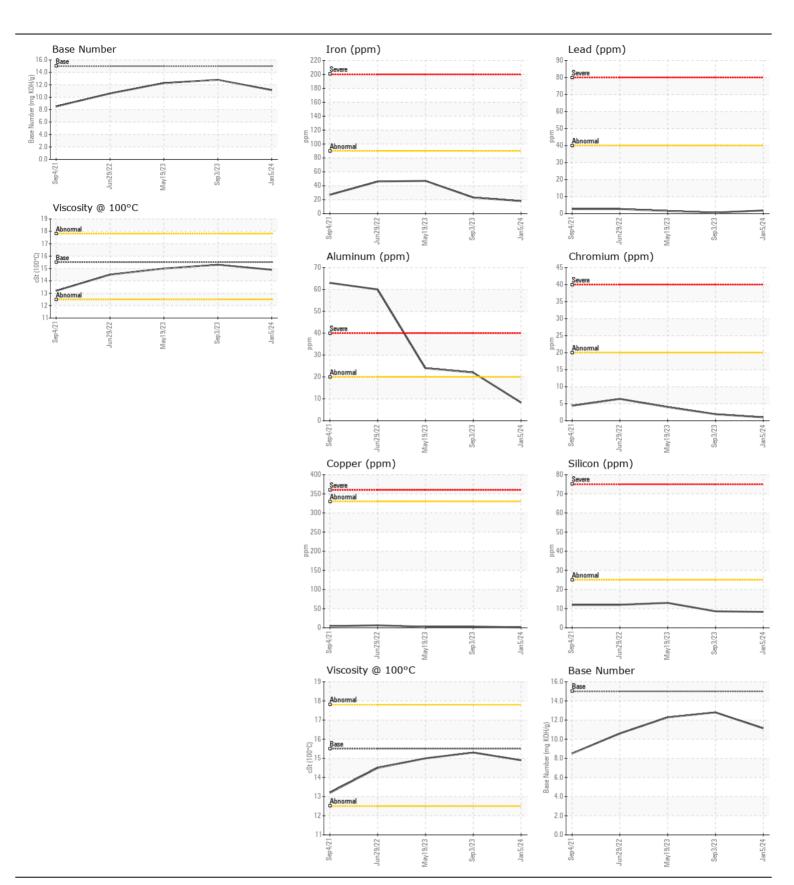
NORMAL NORMAL NORMAL

OIL ANALYSIS REPORT

KENWORTH T-800 2021 KENWORTH BRETT (S/N 431813)

Component Diesel Engine

TRC MOLY XL PROSPEC III 15W40 (11 GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number	UCIVI	Client Info	LIIIIII/AUII	TR06056888	TR06033651	TR05861426
	Sample Date		Client Info		05 Jan 2024	03 Sep 2023	19 May 2023
	Machine Age	mls	Client Info		131851	110000	0
	Oil Age	mls	Client Info		21851	18220	27757
	Filter Age	mls	Client Info		21851	18220	27757
	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	18	23	47
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		1	2	4
	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m	>2	<1	0	<1
	Silver	ppm	ASTM D5185m		0	<1	<1
	Aluminum	ppm	ASTM D5185m		8	22	24
	Lead	ppm	ASTM D5185m		2	<1	2
	Copper	ppm	ASTM D5185m		1	3	2
	Tin	ppm	ASTM D5185m	>15	<1	<1	2
	Vanadium	ppm	ASTM D5185m		<1	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	8	9	13
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	13	43	52
	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		0.6	0.7	0.8
	Nitration	Abs/cm	*ASTM D7624	>20	11.5	11.7	13.4
	Sulfation	Abs/.1mm	*ASTM D7415		25.8	23.4	28.5
	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	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	4	4
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		1	2	6
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		133	122	130
	Manganese	ppm	ASTM D5185m		<1	1	1
	Magnesium	ppm	ASTM D5185m	4500	27	24	59
	Calcium	ppm	ASTM D5185m	4500	4272	4279	4585
	Phosphorus	ppm	ASTM D5185m	1.400	965	968	938
	Zinc	ppm	ASTM D5185m	1400	1120	1140	1140
	Sulfur	ppm	ASTM D5185m	0.5	4220	4572	5097
	Oxidation	Abs/.1mm	*ASTM D7414		13.2	12.6	15.4
	Base Number (BN)				11.14	12.80	12.28
	Visc @ 100°C	cSt	ASTM D445	15.5	14.9	15.3	15.0







Certificate L2367

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

: 06056888 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : TR06056888 Recieved : 10 Jan 2024 Diagnosed : 11 Jan 2024

: 10822837 : Angela Borella Diagnostician

HANNEMAN FOREST PRODUCTS

13551 GREENWOOD RD GLEN ALLEN, VA US 23059

Contact: TIM SMITH

To discuss this sample report, contact Customer Service at 1-800-827-0711.

* - 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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F: