**OIL ANALYSIS REPORT** 

**WEAR CONTAMINATION FLUID CONDITION**  **NORMAL NORMAL NORMAL** 

## **KENWORTH T880 23 (S/N 1NKIZX4EX4LJ402469)**

Component Diesel Engine

TRC MOLY XL PRO-SPEC IV XP 15W40 (--- GAL)

DECOMMENDATION	Toot	11084	Motherd	Limit/Alec-	C	Lliotomid	I lintam C
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number Sample Date		Client Info		TR06086731 03 Feb 2024	TR06021109 21 Oct 2023	
	Machine Age	mls	Client Info		215000	205000	
	Oil Age	mls	Client Info		20000	10000	
	Filter Age	mls	Client Info		10000	10000	
	Oil Changed	11113	Client Info		Not Changd	Not Changd	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status		Olioni illio		NORMAL	NORMAL	
VEAR	Iron	ppm	ASTM D5185m		22	16	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		2	2	
	Nickel	ppm	ASTM D5185m		0	0	
	Titanium	ppm	ASTM D5185m		4	<1	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m		11	8	
	Lead	ppm	ASTM D5185m		2	<1	
	Copper	ppm	ASTM D5185m		<1	<1	
	Tin	ppm	ASTM D5185m	>15	2	0	
	Vanadium	ppm	ASTM D5185m	NONE	0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	8	8	
	Potassium	ppm	ASTM D5185m	>20	16	11	
There is no indication of any contamination in the oil.	Fuel		WC Method	>3.0	<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>6	0.3	0.3	
	Nitration	Abs/cm	*ASTM D7624	>20	12.4	10.6	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	26.1	22.0	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	
LUID CONDITION	Sodium	ppm	ASTM D5185m		5	3	
EOID CONDITION	Boron	ppm	ASTM D5185m		17	10	
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	
	Molybdenum	ppm	ASTM D5185m		121	123	
	Manganese	ppm	ASTM D5185m		<1	<1	
	Magnesium	ppm	ASTM D5185m		100	90	
	Calcium	ppm	ASTM D5185m		4071	3765	
	Phosphorus	ppm	ASTM D5185m		826	798	
	Zinc	ppm	ASTM D5185m		1049	980	
	Sulfur	ppm	ASTM D5185m		3701	3797	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.8	12.9	
	Base Number (BN)		ASTM D2896		10.71	12.65	
	Visc @ 100°C	cSt	ASTM D445		14.4	14.3	





Certificate L2367

Laboratory Sample No.

: TR06086731 Lab Number : 06086731 Unique Number : 10874176 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 12 Feb 2024 **Tested** Diagnosed

: 13 Feb 2024 : 13 Feb 2024 - Wes Davis

DRAIN, OR US 97435 Contact: BOB RUNDELL bobrundell@rundellinc.com T:

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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**RUNDELL INC** 

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