OIL ANALYSIS REPORT

WEAR CONTAMINATION FLUID CONDITION **NORMAL NORMAL NORMAL**

KENWORTH T880 34 (S/N 3BK2XPEX4PF245869)

Component Diesel Engine

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

TRC MOLY XL PRO-SPEC IV XP 15W40 (GA	<u>L)</u>						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		TR06086727		
	Sample Date		Client Info		03 Feb 2024		
	Machine Age	mls	Client Info		67603		
	Oil Age	mls	Client Info		20000		
	Filter Age	mls	Client Info		10000		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
WEAR	Iron	ppm	ASTM D5185m	>100	25		
WEAR	Chromium		ASTM D5185m		<1		
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m		0		
	Titanium		ASTM D5185m	>4	<1		
	Silver	ppm		. 0	0		
		ppm	ASTM D5185m				
	Aluminum	ppm	ASTM D5185m		22		
	Lead	ppm	ASTM D5185m		2		
	Copper	ppm	ASTM D5185m		4		
	Tin	ppm	ASTM D5185m	>15	3		
	Vanadium	ppm	ASTM D5185m	NONE	0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	12		
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	49		
	Fuel		WC Method	>5	<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.3		
	Nitration	Abs/cm	*ASTM D7624	>20	13.1		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	28.3		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.2	NEG		
FLUID CONDITION	Sodium	nnm	ASTM D5185m		2		
TEOID CONDITION	Boron	ppm	ASTM D5185m		3		
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		
	Molybdenum	ppm	ASTM D5185m		128		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m		94		
	Calcium	ppm	ASTM D5185m		4382		
	Phosphorus	ppm	ASTM D5185m		883		
	Zinc	ppm	ASTM D5185m		1102		
	Sulfur	ppm	ASTM D5185m		4076		
	Oxidation	ppm Abc/ 1mm	*ASTM D7414	> 2F	4076 17.1		
	Base Number (BN)	Abs/.1mm		>20	17.1		
	Visc @ 100°C	cSt	ASTM D2696 ASTM D445				
	VISC @ 100 C	COL	49 LINI D443		15.5		





Certificate L2367

Laboratory Sample No.

: TR06086727 Lab Number : 06086727 Unique Number : 10874172 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 12 Feb 2024 : 13 Feb 2024 **Tested**

: 13 Feb 2024 - Wes Davis Diagnosed

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

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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