WEAR CONTAMINATION FLUID CONDITION **NORMAL SEVERE SEVERE**

OIL ANALYSIS REPORT

KENWORTH NO UNIT TR02625584

Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.	Sample Number		Client Info		TR02625584		
	Sample Date		Client Info		18 Mar 2024		
	Machine Age	mls	Client Info		498636		
	Oil Age	mls	Client Info		5000		
	Filter Age	mls	Client Info		5000		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		Changed		
	Sample Status				SEVERE		
VEAD.							
WEAR	Iron	ppm	ASTM D5185(m)		10		
All component wear rates are normal.	Chromium	ppm	ASTM D5185(m)		0		
	Nickel	ppm	ASTM D5185(m)		0		
	Titanium	ppm	ASTM D5185(m)		0		
	Silver	ppm	ASTM D5185(m)		0		
	Aluminum	ppm	ASTM D5185(m)		3		
	Lead	ppm	ASTM D5185(m)		3		
	Copper	ppm	ASTM D5185(m)		<1		
	Tin	ppm	ASTM D5185(m)	>5	0		
	Vanadium	ppm	ASTM D5185(m)		0		
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>35	7		
There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.	Potassium	ppm	ASTM D5185(m)	>20	1		
	Fuel	%	ASTM D7593*	>3.0	4 24.6		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	ASTM D7844*	>7.5	0		
	Nitration	Abs/cm	ASTM D7624*	>20	9.2		
	Sulfation	Abs/.1mm	ASTM D7415*	>30	17.6		
	Emulsified Water	scalar	Visual*	>0.2	NEG		
LUD CONDITION	O "		AOTM DE (OF ()				
LUID CONDITION	Sodium	ppm	ASTM D5185(m)		2		
The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.	Boron	ppm	ASTM D5185(m)		37		
	Barium	ppm	ASTM D5185(m)		0		
	Molybdenum	ppm	ASTM D5185(m)		155		
	Manganese	ppm	ASTM D5185(m)		0		
	Magnesium	ppm	ASTM D5185(m)	4500	91		
	Calcium	ppm	ASTM D5185(m)	4500	1534		
	Phosphorus	ppm	ASTM D5185(m)	1.165	751		
	Zinc	ppm	ASTM D5185(m)	1400	840		
	Sulfur Oxidation	ppm Abs/.1mm	ASTM D5185(m) ASTM D7414*	0.5	2522 13.4		

Base Number (BN) mg KOH/g ASTM D2896* 15

ASTM D7279(m) 15.5

Visc @ 100°C cSt

6.84

7.4





CALA ISO 17025:2017 Accredited

Laboratory

Laboratory Sample No.

Lab Number : 02625584

: TR02625584 Unique Number : 5750703

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received **Tested**

: 01 Apr 2024 : 02 Apr 2024 Diagnosed

: 02 Apr 2024 - Kevin Marson

Test Package : MOB 2 (Additional Tests: FuelDilution, PercentFuel) 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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