

Fayetteville NC Machime Id KENWORTH TRUCK 113 Component

Diesel Engine

GUARD PLUS 15W40 CK9 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Sample Number		Client Info		WC0917084		
	Sample Date		Client Info		08 May 2024		
	Machine Age	hrs	Client Info		255485		
	Oil Age	hrs	Client Info		20000		
	Filter Age	hrs	Client Info		20000		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				SEVERE		
WEAR	Iron	ppm	ASTM D5185m		13		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1		
	Nickel	ppm	ASTM D5185m	>4	<1		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m		5		
	Lead	ppm	ASTM D5185m		6		
	Copper	ppm	ASTM D5185m		2		
	Tin	ppm	ASTM D5185m	>15	1		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
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CONTAMINATION	Silicon	ppm	ASTM D5185m		6		
There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.	Potassium	ppm	ASTM D5185m		7		
	Fuel	%	ASTM D3524	>5	8.8		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844		0.4		
	Nitration	Abs/cm	*ASTM D7624	>20	10.0		
	Sulfation	Abs/.1mm	*ASTM D7415		20.7		
	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	ppm	ASTM D5185m		0		
	Boron		ASTM D5185m		23		
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.	Barium		ASTM D5185m				
	Molybdenum	ppm	ASTM D5185m		2 85		
	Manganese	ppm	ASTM D5185m		- 05 <1		
	-	ppm			<1 59		
	Magnesium	ppm	ASTM D5185m				
	Calcium	ppm	ASTM D5185m		1972		
	Phosphorus	ppm	ASTM D5185m		969		
	Zinc	ppm	ASTM D5185m		1078		

Sulfur

Oxidation

Visc @ 100°C cSt

ppm ASTM D5185m

Base Number (BN) mg KOH/g ASTM D2896

Abs/.1mm *ASTM D7414 >25

ASTM D445

3472

15.5

5.4

10.5



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 WOLFPACK TRANSPORATION 回情 Sample No. 664 BEN GREEN INDUSTRIAL PARK DRIVE : WC0917084 Received : 10 May 2024 Lab Number : 06176549 ELIZABETHTOWN, NC Tested : 15 May 2024 : 15 May 2024 - Wes Davis US 28337 Unique Number : 11022602 Diagnosed Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel, TBN) Contact: WESLEY SASSER Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. wesley.sasser@wolfpacktransportation.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (910)874-4046 F: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Submitted By: WESLEY SASSER Page 2 of 2