WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL NORMAL

Williams Village NC

KENWORTH TRUCK 145

Diesel Engine

Test UOM Method Limit/Abn Current History1 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. Test UOM Method Limit/Abn Current History1 Sample Number Client Info 08 May 2024 Machine Age mls Client Info 25886 Oil Age mls Client Info 0 Filter Age mls Client Info 0 Oil Changed Client Info Changed Filter Changed Client Info Changed Sample Status NORMAL WEAR Iron ppm ASTM D5185m >100 61 Chromium ppm ASTM D5185m >20 2	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 Client Info 08 May 2024 Machine Age mls Client Info 25886 Oil Age mls Client Info 4500 Filter Age mls Client Info 0 Oil Changed Client Info Changed Filter Changed Client Info Changed Sample Status NORMAL	
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 Date Machine Age Mis Client Info 25886 Oil Age mls Client Info Oil Age Mis Client Info Oil Age Mis Client Info Oil Changed Client Info Changed Filter Changed Sample Status NORMAL WEAR	
corrective action is recommended at this time. Resample at the next service interval to monitor. Machine Age mls Client Info 4500 Filter Age mls Client Info 0 Oil Changed Client Info Changed Client Info Changed	
Oil Age mls Client Info 4500 Filter Age mls Client Info 0 Oil Changed Client Info Changed Filter Changed Client Info Changed Filter Changed Sample Status NORMAL WEAR Iron ppm ASTM D5185m >100 61	
Filter Age mls Client Info O Oil Changed Client Info Changed Filter Changed Client Info Changed Filter Changed Client Info Changed Sample Status NORMAL WEAR Iron ppm ASTM D5185m >100 61	
Oil Changed Client Info Changed Change	
Filter Changed Client Info Sample Status Changed NORMAL WEAR Iron ppm ASTM D5185m >100 61	
Sample Status NORMAL WEAR Iron ppm ASTM D5185m >100 61	
Metal levels are typical for a new component breaking in. Nickel ppm ASTM D5185m >4 <1	
Titanium ppm ASTM D5185m <1	
Silver ppm ASTM D5185m >3 <1	
Aluminum ppm ASTM D5185m >20 56	
Lead ppm ASTM D5185m >40 <1	
Copper ppm ASTM D5185m >330 14	
Tin ppm ASTM D5185m >15 2	
Vanadium ppm ASTM D5185m <1	
White Metal scalar *Visual NONE NONE	
Yellow Metal scalar *Visual NONE NONE	
CONTAMINATION Silicon ppm ASTM D5185m >25 14	
Potassium ppm ASTM D5185m >20 160	
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. We Method We Method NEG	
Soot % *ASTM D7844 >3 0.3	
Nitration Abs/cm *ASTM D7624 >20 10.7	
Sulfation Abs/.1mm *ASTM D7415 >30 23.8	
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	
Emulsified Water scalar *Visual >0.2 NEG	
FLUID CONDITION Sodium ppm ASTM D5185m 2	
Boron ppm ASTM D5185m 39	
The BN result indicates that there is suitable alkalinity remaining in the Barium ppm ASTM D5185m 4	
oil. The condition of the oil is suitable for further service. Molybdenum ppm ASTM D5185m 22	
Manganese ppm ASTM D5185m 2	
Magnesium ppm ASTM D5185m 726	
Calcium ppm ASTM D5185m 1432	
Phosphorus ppm ASTM D5185m 801	
Zinc ppm ASTM D5185m 863	
Sulfur ppm ASTM D5185m 3192	
Oxidation	
Base Number (BN) mg KOH/g ASTM D2896 5.7	
Visc @ 100°C cSt ASTM D445 12.1	





Report Id: WOLELI [WUSCAR] 06176576 (Generated: 05/14/2024 14:44:01) Rev: 1

Laboratory Sample No.

: WC0917086 Lab Number : 06176576

Unique Number: 11022629

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 10 May 2024

Tested Diagnosed

: 13 May 2024 : 14 May 2024 - Sean Felton

WOLFPACK TRANSPORATION 664 BEN GREEN INDUSTRIAL PARK DRIVE

ELIZABETHTOWN, NC US 28337

Test Package: MOB 1 (Additional Tests: FuelDilution, TBN) Contact: WESLEY SASSER Certificate L2367 wesley.sasser@wolfpacktransportation.com To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - 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)