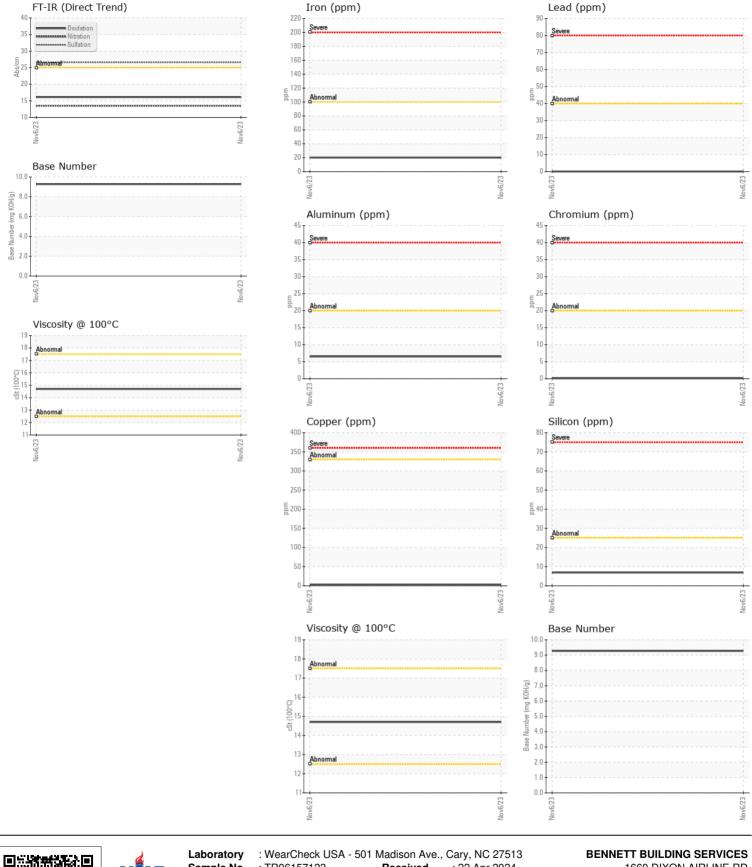


OIL ANALYSIS REPORT

Machine Id KENWORTH 254185 Component Diesel Engine Fluid TRC MOLY XL PRO-SPEC IV XP 15W40 (--- QTS)

Ites UDM Ites UDM Method Uterant Helsbyr Helsbyr Resample at the next service interval to monitor. Sample Nature Sample Date Client tho 0 0 Machine Age miclo Client tho 0 0 OLA Age miclo Client tho 0 0 Machine Age miclo Client tho 0 0 Filter Age miclo Client tho 0 0 WEAR Itom pome Struto Stim 200 20 All component waar rates are normal. Iron pom Struto Stim 200 0 All component waar rates are normal. Iron pom Struto Stim 20 6 All component waar rates are normal. Iron pom Struto Stim 20 6 All compone		- ·						
Resample at the next service interval to monitor. Sample base Machine Age Client Info R Not 202 Image Machine Age Client Info N 494762 Image Machine Age Machine Age	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
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Sample Status NORMA n n WEAR Iron ppm All component wear rates are normal. Iron ppm ASIM 05156 100 20 10 100 Nokel ppm ASIM 05156 20 10 100 <		-				U U		
VEAR Iron ppm ASTM 05185n 1:00 20 All component wear rates are normal. Pin Marking ppm ASTM 05185n		-		Client Inio				
All component wear rates are normal. Chromium ppm ASIN Diskin >20 <1		Sample Status				NORMAL		
All component wear rates are normal. Chromium ppm ASIN Diskin >20 <1	WEAR	Iron	ppm	ASTM D5185m	>100	20		
All component wear rates are normal. Nickel ppm ASTM Dision >4 0 Titanium ppm ASTM Dision >3 0 All winium ppm ASTM Dision >3 0 All winium ppm ASTM Dision >30 0 Winite Metal scalar Visual NONE NONE There is no indication of any contamination in the oil. Silicon ppm ASTM Dision >20 6 Givool WC Metrio MSTM Dision >20		Chromium		ASTM D5185m	>20	<1		
Titanion ppm ASTM 05156n C 0 Silver ppm ASTM 05156n -20 Silver ppm ASTM 05156n -20 6 Lead ppm ASTM 05156n 0 0 Copper ppm ASTM 05156n 0 Tin ppm ASTM 05156n -0 0 Vanadum ppm ASTM 05156n -0 0 Vanadum ppm ASTM 05156n -0 0 Vanadum ppm ASTM 05156n -20 6	All component wear rates are normal.	Nickel				0		
Aluminum ppm ASTM 05185n >20 6 Laad ppm ASTM 05185n -40 0 Laad ppm ASTM 05185n -15 -11 Vanadium ppm ASTM 05185n -15 -11 Vanadium ppm ASTM 05185n -15 -11 Vanadium ppm ASTM 05185n -25 7 Visual NONE Potassium ppm ASTM 05185n<-S25 7 Silicon ppm ASTM 05185n<-S20 6 Water Visual NONE Silicon Scalar %Isitm 0764a 0 Soot % % %Isitm 0764a 0		Titanium		ASTM D5185m		0		
Aluminum ppm ASTM 05/56n >20 6 Lead ppm ASTM 05/56n >40 0 Lead ppm ASTM 05/56n >50 2 Tin ppm ASTM 05/56n >15 <1 Vanadium ppm ASTM 05/56n >50 NONE NONE White Metal scalar 'Visual NONE NONE Volume ppm ASTM 05/56n >20 6 Volume ppm ASTM 05/56n >20 1.5 Volume NONE NONE		Silver			>3	0		
Lead ppm ASTN 0586m >400 0		Aluminum		ASTM D5185m	>20	6		
Copper ppm ASTM D585m >300 2 Tin ppm ASTM D585m >15 <1 Vanadium ppm ASTM D585m >00 White Metal scalar 'Visual NONE NONE There is no indication of any contamination in the oil. Silicon ppm ASTM D585m >20 6 Fuel WC Method >0.2 REG Giycol WC Method >0.2 REG Water WC Method >0.2 REG Giycol WC Method >0.2 REG Soti % % Wol Method >0.2 REG Soti % % Wol Method >0.2 REG </th <th></th> <th>Lead</th> <th></th> <th>ASTM D5185m</th> <th>>40</th> <th>0</th> <th></th> <th></th>		Lead		ASTM D5185m	>40	0		
Tin ppm ASTM 05185m >15 <1		Copper		ASTM D5185m	>330	2		
White Metal Scalar Visual Visual NONE NONE Image: None Image: None Image: None Ima		Tin	ppm	ASTM D5185m	>15	<1		
Yellow Metal scalar Visual NONE CONTAMINATION Silicon ppm ASTM 05185m >20 6 Potassium ppm ASTM 05185m >20 6 Potassium ppm ASTM 05185m >20 6 Water WC Method >5 <1.0 Glycol WC Method >5 <1.0 Soti % % MSTM 0784 >3 0.5 Siti scalar Visual NONE NONE Suffation As/s/m 7451M 07415 >30 26.6 Sand/Dirt scalar Visual NONE NONE Odor scalar Visual NORML NORML Boron ppm ASTM 05185m <th></th> <th>Vanadium</th> <th>ppm</th> <th>ASTM D5185m</th> <th></th> <th>0</th> <th></th> <th></th>		Vanadium	ppm	ASTM D5185m		0		
Silicon ppm ASTM D5185m >25 7 There is no indication of any contamination in the oil. Potassium ppm ASTM D5185m >20 6 Fuel WC Method >5 <1.0 Water WC Method >0.2 NEG Gly Col WC Method >0.2 NEG Slood % % STM D5185m >2.0 NEG Slood % % STM D7624 >2.0 13.5 Slafation Abs/Inm Yisual NONE NONE Slafation Abs/Inm Yisual NONE NONE Shad/Dir scalar Yisual NORM NORML Appearance scalar Yisual NORM NORML		White Metal	scalar	*Visual	NONE	NONE		
Potassium ppm ASTM D5185m >20 6 Fuel WC Method >5 <1.0 Fuel WC Method >0.2 NEG Glycol WC Method >0.2 NEG Glycol WC Method >0.5 Soft% % NSTM D7844 >30 0.5 Nitration Abs(m 'ASTM D7644 >20 13.5 Sulfation Abs(m 'ASTM D7644 >20 26.6 Sulfation Abs(m 'Nisual NONE NONE Sulfation Abs(m 'Nisual NONE NONE Sad/Dirit scalar 'Nisual NORM NORM Appearance scalar 'Nisual NORM NOR <th></th> <th>Yellow Metal</th> <th>scalar</th> <th>*Visual</th> <th>NONE</th> <th>NONE</th> <th></th> <th></th>		Yellow Metal	scalar	*Visual	NONE	NONE		
Potassium ppm ASTM D5185m >20 6 Fuel WC Method >5 <1.0 Fuel WC Method >0.2 NEG Glycol WC Method >0.2 NEG Glycol WC Method >0.5 Soft% % NSTM D7844 >30 0.5 Nitration Abs(m 'ASTM D7644 >20 13.5 Sulfation Abs(m 'ASTM D7644 >20 26.6 Sulfation Abs(m 'Nisual NONE NONE Sulfation Abs(m 'Nisual NONE NONE Sad/Dirit scalar 'Nisual NORM NORM Appearance scalar 'Nisual NORM NOR <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>								
There is no indication of any contamination in the oil. Fuel WC Method >5 <1.0 Water I WC Method >0.2 NEG Glycol WC Method >0.2 NEG Sort % %STM D762 >20 13.5 Nitration Abs/cm *ASTM D764 >30 26.6 Sulfation Abs/cm *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORM The BN result indicates that there is suitable alkalinity remaining in the oil. Boron pm ASTM D5185m 0 Molybdenum pm ASTM D5185m 117 <	CONTAMINATION							
FLUID With water With weinton Sol Net Hait Hait <th rowspan="2">There is no indication of any contamination in the oil.</th> <th></th> <th>ppm</th> <th></th> <th></th> <th></th> <th></th> <th></th>	There is no indication of any contamination in the oil.		ppm					
Giycol WC Method NEG Soot % % 'ASTM D784 >-3 0.5 Nitration Abs/cm 'ASTM D784 >-3 0.5 Sulfation Abs/tm 'ASTM D784 >-20 13.5 Sulfation Abs/tm 'NSUal NONE NONE Sulfation Abs/tm 'NSual NONE NONE Sadr/Dirt scalar 'Visual NONE NONE Sadr/Dirt scalar 'Visual NORM NORM Octor scalar 'Visual NORM NORM Boron ppm ASTM D5185m S 3 Malganesium ppm ASTM D5185m I 117 Malganesium ppm ASTM D5185m I								
Sott % % *ASTM D7844 >3 0.5 Nitration Abs/m *ASTM D7624 >20 13.5 Sulfation Abs/m *Astm D7624 >0 26.6 Debris scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Baron ppm ASTM D5185m 3 Manganese					>0.2			
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Sulfation Abs/Imm YASTM D7415 >30 26.6 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								
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Odorscalar*VisualNORMLEmulsified Waterscalar*Visual>0.2NEGNEGNEGFLUID CONDITIONSodiumppmASTM D5185m4BoronppmASTM D5185m4BariumppmASTM D5185m0MolybdenumppmASTM D5185m0ManganeseppmASTM D5185m105ManganesumppmASTM D5185m105ManganesumppmASTM D5185m4224PhosphorusppmASTM D5185m900SulfurppmASTM D5185m990SulfurppmASTM D5185m4759SulfurppmASTM D5185m4759SulfurppmASTM D5185m4759SulfurppmASTM D5185m4759SulfurppmASTM D5185m4759Sase Number (BN)mg KOHgASTM D289690.27Base Number (BN)mg KOHgASTM D28969.27 <td< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></td<>								
Emulsified Waterscalar*Visual>0.2NEGFLUID CONDITIONThe BN result indicates that there is suitable alkalinity remaining in the oil is suitable for further service.SodiumppmASTM D5185m04BoronppmASTM D5185m0BariumppmASTM D5185m0MolybdenumppmASTM D5185m0MaganesseppmASTM D5185m117MagnesiumppmASTM D5185m105CalciumppmASTM D5185m105PhosphorusppmASTM D5185m900ZincppmASTM D5185m990SulfurppmASTM D5185m4759DxidationAbs/.1mm'ASTM D7141>2516.1Base Number (BN)mg KOHigASTM D28869.27								
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Oxidation Abs/.1mm *ASTM D7414 >25 16.1 Base Number (BN) mg KOH/g ASTM D2896 9.27						4759		
Base Number (BN) mg KOH/g ASTM D2896 9.27					>25			
			mg KOH/g	ASTM D2896		9.27		
		Visc @ 100°C						



BENNETT BUILDING SERVICES Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. Received 1660 DIXON AIRLINE RD : TR06157123 : 22 Apr 2024 Lab Number : 06157123 Tested : 23 Apr 2024 AUGUSTA, GA Unique Number : 10992546 : 23 Apr 2024 - Wes Davis US 30809 Diagnosed Test Package : MOB 2 Contact: STEVE MATSON Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-827-0711. HSMATSON@YAHOO.COM * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

Contact/Location: STEVE MATSON - BENAUG Page 2 of 2