

WEAR CONTAMINATION **FLUID CONDITION** **NORMAL NORMAL NORMAL**

Machine Id

1814

Component Diesel Engine

	ENGINE OIL SAE 15W40 (QTS)
Test UOM Method Limit/Abn Current	MENDATION Test
Sample Number Client Info WC0870677 -	Sample Numb
Sample Date Client Info 19 Dec 2023 -	the next service interval to monitor. Please specify the nake and model with your next sample.
Machine Age mls Client Info 19813 -	Machine Age
Oil Age mls Client Info 0 -	Oil Age
Filter Age mls Client Info 0 -	Filter Age
Oil Changed Client Info Not Changd -	Oil Changed
Filter Changed Client Info Not Change -	Filter Change
Sample Status NORMAL -	Sample Statu
Iron ppm ASTM D5185m >100 10	Iron
Chromium ppm ASTM D5185m >20 <1	Chromium
Nickel ppm ASTM D5185m >4 0	are typical for a new component breaking in
Titanium ppm ASTM D5185m 0	
Silver ppm ASTM D5185m >3 0	
Aluminum ppm ASTM D5185m >20 14	
Lead ppm ASTM D5185m >40 0	
Copper ppm ASTM D5185m >330 <1	
Tin ppm ASTM D5185m >15 0	
Vanadium ppm ASTM D5185m <1	
White Metal scalar *Visual NONE NONE	
Yellow Metal scalar *Visual NONE NONE	
Silicon ppm ASTM D5185m >25 6	/INATION Silicon
Potassium ppm ASTM D5185m >20 33	Potassium
Fuel WC Method >5 <1.0	minum (Al) and/or lead (Pb) and potassium (K) levels in analysis are likely a result of solder flux release into the
Water WC Method >0.2 NEG	I is common on new equipment/components. There is no
Glycol WC Method NEG	any contamination in the oil.
Soot %	Soot %
Nitration Abs/cm *ASTM D7624 >20 8.1	Nitration
Sulfation Abs/.1mm *ASTM D7415 >30 17.7	Sulfation
Silt scalar *Visual NONE NONE	Silt
Debris scalar *Visual NONE NONE	Debris
Sand/Dirt scalar *Visual NONE NONE	Sand/Dirt
Appearance scalar *Visual NORML NORML	Appearance
Odor scalar *Visual NORML NORML	
Emulsified Water scalar *Visual >0.2 NEG	Emulsified Wat
Sodium ppm ASTM D5185m >158 1	ONDITION
Boron ppm ASTM D5185m 250 51	
Barium ppm ASTM D5185m 10 0	It indicates that there is suitable alkalinity remaining in the
Molybdenum ppm ASTM D5185m 100 82	lition of the oil is suitable for further service
Manganese ppm ASTM D5185m <1	·
Magnesium ppm ASTM D5185m 450 108	-
Calcium ppm ASTM D5185m 3000 1973	· ·
Phosphorus ppm ASTM D5185m 1150 1021	
Zinc ppm ASTM D5185m 1350 1194	· · ·
**	
() 0	
Sulfur ppm ASTM D5185m 4250 3638 Oxidation Abs/.1mm *ASTM D7414 >25 13.2 Base Number (BN) mg KOH/g ASTM D2896 8.5 6.9 Visc @ 100°C cSt ASTM D445 14.4 13.0	Oxidation Base Number (B





Laboratory Sample No. Lab Number **Unique Number**

: WC0870677 : 06061695 : 10833077

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 16 Jan 2024 : 17 Jan 2024

Diagnosed Diagnostician : Wes Davis

Test Package : MOB 1 (Additional Tests: TBN) 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. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

WAKE COUNTY PUBLIC SCHOOL SYSTEM

1551 ROCK QUARRY ROAD RALEIGH, NC US 27610

Contact: DEVIN WEBER dweber@wcpss.net T: (919)856-8076

F: x: