



VOLVO EC480EL 311086

Diesel Engine

VÕLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3 (--- GAL)

RECOMMENDATION Test UOM Method Limit/Abn Current Histor The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Sample Number Client Info ASC001019 A	8903 ASC000
The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.Sample DateClient Info19 Apr 202406 FebMachine AgehrsClient Info101819919	
recommend an early resample to monitor this condition. Sample Date Client Info 19 Apr 2024 06 Feb Machine Age hrs Client Info 10181 9919	2024 07 Dec 2
Machine Age hrs Client Into 10181 9919	
	9584
Oil Age hrs Client Info 500 500	320
Filter Age hrs Client Info 500 500	320
Oil Changed Client Info Changed Changed	ed Chang
Filter Changed Client Info Changed Changed	ed Chang
Sample Status ABNORMAL NORM	AL NORM
WEAR Iron ppm ASTM D5185m >100 7 18	6
Chromium ppm ASTM D5185m >10 0 <1	0
All component wear rates are normal. Nickel ppm ASTM D5185m >10 0 4	0
TitaniumppmASTM D5185m00	0
SilverppmASTM D5185m>200	0
Aluminum ppm ASTM D5105m >10 <1	1
Lead ppm ASTM D5185m >20 0 0	0
Copper ppm ASTM D5105m >15 0 <1	<1
Tin ppm ASTM D5185m >10 0 0	0
Vanadium ppm ASTM D5185m 0 0	0
White Metal scalar *Visual NONE NONE NO	
Yellow Metal scalar *Visual NONE NONE NO	
CONTAMINATION Silicon ppm ASTM D5185m >20 0 6	5
There is a maderate amount of fuel except in the sill Tests confirm the	1
There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.) <1.(
Water WC Method >0.1 NEG NE	G NEC
Glycol WC Method NEG NE	G NEC
Soot % % *ASTM D7844 >3 0.1 0.1	0.1
Nitration Abs/cm *ASTM D7624 >20 5.9 6.3	6.2
Sulfation Abs/.1mm *ASTM D7415 >30 17.3	6 17.5
Silt scalar *Visual NONE NONE NO	NE NO
Debris scalar *Visual NONE NONE NO	NE NO
Sand/Dirt scalar *Visual NONE NONE NO	
	RML NOF
	RML NOF
Emulsified Water scalar *Visual >0.1 NEG NE	G NEC
FLUID CONDITION Sodium ppm ASTM D5185m 5 5	3
Boron ppm ASTM D5185m 2.5 <1 9	6
The BN result indicates that there is suitable alkalinity remaining in the Barium ppm ASTM D5185m 0.0 0 0	0
oil. Fuel is present in the oil and is lowering the viscosity. The oil is no	61
Ionger serviceable due to the presence of contaminants. Manganese ppm ASTM D5185m 0.0 <1 <1	0
Magnesium ppm ASTM D5185m 256 833 902	
Magnesium ppm ASIM D5185m 2256 833 902 Calcium ppm ASIM D5185m 2057 952 107	2 111
Calcium ppm ASTM D5185m 2057 952 107	7 104

Oxidation

Visc @ 100°C cSt

13.5

8.3

12.7

13.2 8.3

12.51

13.0

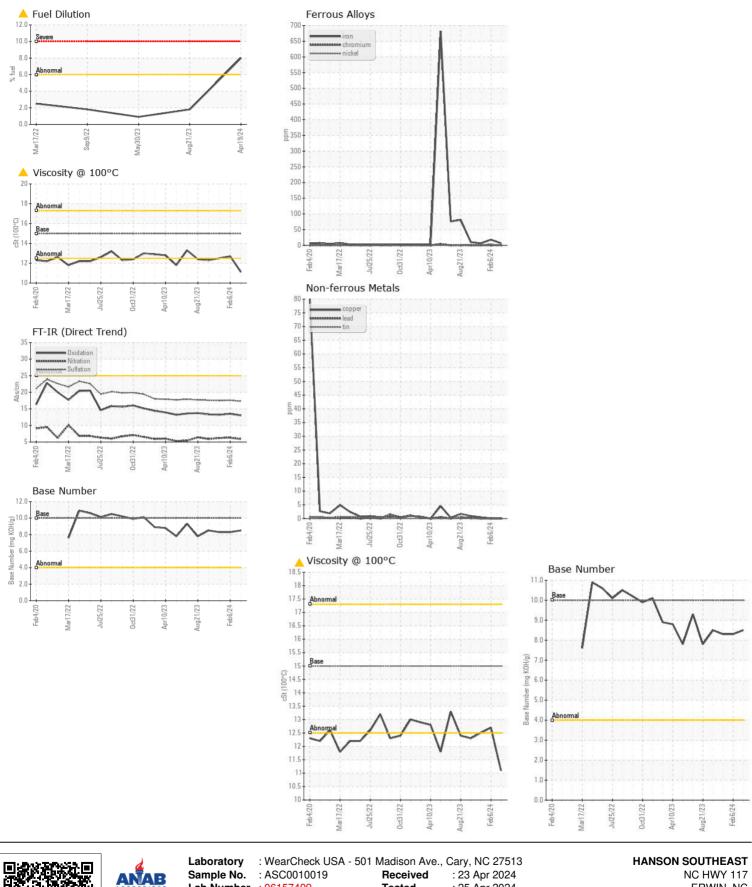
8.5

11.1

Abs/.1mm *ASTM D7414 >25

ASTM D445 15.0

Base Number (BN) mg KOH/g ASTM D2896 10



Sample No. : ASC0010019 Received : 23 Apr 2024 Lab Number : 06157409 ERWIN, NC Tested : 25 Apr 2024 Unique Number : 10992832 US 28339 Diagnosed : 25 Apr 2024 - Wes Davis Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN) Contact: Service Manager Certificate L2367 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)

Report Id: HANERW [WUSCAR] 06157409 (Generated: 04/25/2024 08:50:46) Rev: 1

Contact/Location: Service Manager - HANERW Page 2 of 2

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