

[25356] Machine Id VOLVO L350 5031 Component Diesel Engine

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

RECOMMENDATION

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.

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The copper level has decreased, but is still abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other metal levels are typical for a new component breaking in.

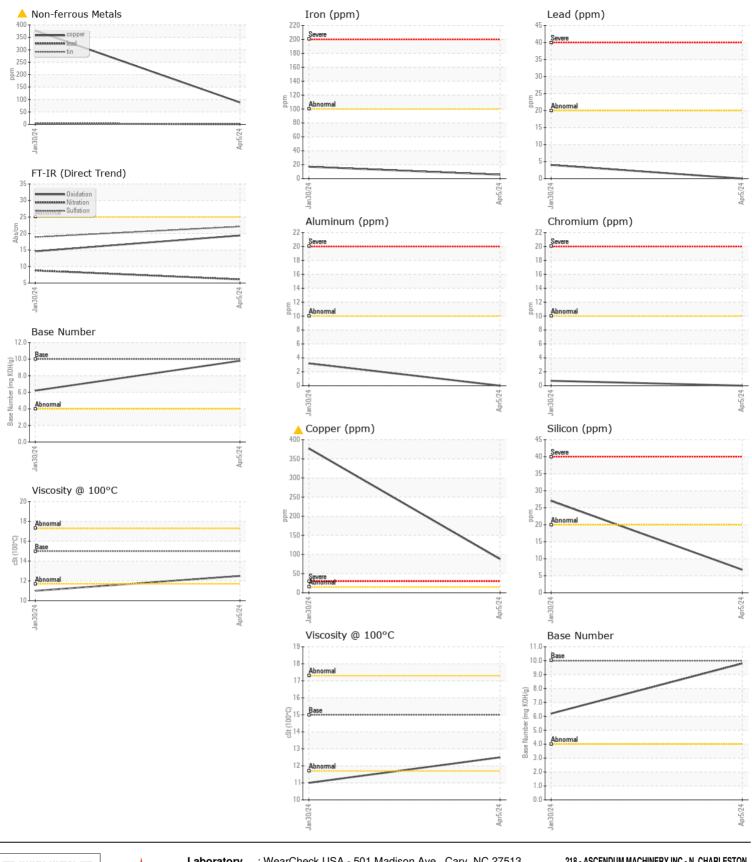
CONTAMINATION

There is no indication of any contamination in the oil.

Sample NumberClient InfoVCP455254VCP441243 Sample DateClient Info05 Apr 202430 Jan 2024Machine AgehrsClient Info0500500Oil AgehrsClient Info00500Filter AgehrsClient Info00Oil ChangedClient InfoChangedChangedFilter ChangedClient InfoChangedChangedSample StatusABNORMALABNORMALIronppmASTM D5185m<>1000<1NickelppmASTM D5185m<>100<1NickelppmASTM D5185m<>2000AluminumppmASTM D5185m<>1003VanadiumppmASTM D5185m<>1003VanadiumppmASTM D5185m<>1003VanadiumppmASTM D5185m<>1003VanadiumppmASTM D5185m<>1003Vellow Metalscalar*VisualNONENONENONESiliconppmASTM D5185m<>20233WaterWC Method0.1NEGNONENONENONESiliconppmASTM D5185m<>20233WaterWC Method0.1NEGNE	
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Silt scalar *Visual NONE NONE NONE	
Debris scalar *Visual NONE NONE NONE	
Sand/Dirt scalar *Visual NONE NONE NONE	
Appearance scalar *Visual NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML	
Emulsified Water scalar *Visual >0.1 NEG NEG	
Sodium ppm ASTM D5185m 2 2	
Boron ppm ASTM D5185m 2.5 54 49	
Barium ppm ASTM D5185m 0.0 0 0	
Molybdenum ppm ASTM D5185m 0.7 49 85	
Manganese ppm ASTM D5185m 0.0 0 1	
Magnesium ppm ASTM D5185m 256 486 29	
Calcium ppm ASTM D5185m 2057 1924 2133	
Phosphorus ppm ASTM D5185m 935 1037 1001	
Zinc ppm ASTM D5185m 1223 1169 1213	
Sulfur ppm ASTM D5185m 4079 3802 3767	
Oxidation Abs/.1mm *ASTM D7414 >25 19.4 14.6	
Base Number (BN) mg KOH/g ASTM D2896 10 9.8 6.2	
Visc @ 100°C cSt ASTM D445 15.0 12.5 11.0	

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 218 - ASCENDUM MACHINERY INC - N. CHARLESTON Sample No. : VCP455254 Received 7235 CROSS COUNTRY RD. : 12 Apr 2024 Lab Number : 06147004 Tested NORTH CHARLESTON, SC : 15 Apr 2024 Unique Number : 10977082 Diagnosed : 15 Apr 2024 - Sean Felton US 29418 Test Package : MOB 1 (Additional Tests: TBN) Contact: MATT MITCHAM Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. matt.mitcham@ascendummachinery.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: (843)414-1129

Contact/Location: MATT MITCHAM - VOLVO3387