



CONSTRUCTION EQUIPMENT

42174 US SILICA VOLVO L350H 1186 - DIESEL ENGINE



Sample No: VCP453823
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 42174 US SILICA



SAMPLE INFORMATION

Sample Number	VCP453823	VCP368315	---	---
Sample Date	21 May 2024	13 Apr 2023	---	---
Machine Hours	8532	4739	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ABNORMAL	NORMAL	---	---

215 - ASCENDUM MACHINERY INC - CAYCE
 2303 AIRPORT BLVD
 CAYCE, SC
 US 29033
 Contact: TAMI BROWDER



OIL CONDITION

Visc @ 100°C	cSt	█ 12.9	█ 12.9	---	---
Base Number (BN)	mg KOH/g	█ 9.5	█ 10.0	---	---
Oxidation (PA)	%	82	83	---	---

T: (803)923-2138
 F: (803)791-9920

Diagnosis

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All other component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. 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.



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.3	█ 0.3	---	---
Nitration (PA)	%	66	61	---	---
Sulfation (PA)	%	64	63	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	▲ 21	█ 5	---	---
Sodium	ppm	█ 2	█ 3	---	---
Potassium	ppm	█ 3	█ 0	---	---



WEAR METALS

Iron	ppm	█ 13	█ 6	---	---
Copper	ppm	█ 2	█ 2	---	---
Lead	ppm	█ 2	█ 0	---	---
Tin	ppm	█ 1	█ <1	---	---
Aluminum	ppm	● 10	█ 1	---	---
Chromium	ppm	█ <1	█ <1	---	---
Molybdenum	ppm	█ 45	█ 45	---	---
Nickel	ppm	█ 1	█ 0	---	---
Titanium	ppm	1	0	---	---
Silver	ppm	█ <1	█ 0	---	---
Manganese	ppm	█ <1	█ <1	---	---
Vanadium	ppm	<1	0	---	---



ADDITIVES

Calcium	ppm	█ 1616	█ 1819	---	---
Magnesium	ppm	█ 507	█ 520	---	---
Zinc	ppm	█ 1116	█ 1141	---	---
Phosphorus	ppm	█ 886	█ 939	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 49	█ 48	---	---

Depot: VOLVO0013
Unique No: 11045509
Signed: Sean Felton
Report Date: 28 May 2024



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GRAPHS

