

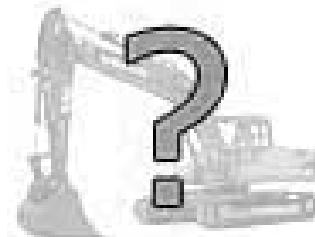


CONSTRUCTION EQUIPMENT

SWA367252-1 ALTER SENNEBOGEN 835 835.0.2949 - DIESEL ENGINE



Sample No: VCP396390
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWA367252-1 ALTER



SAMPLE INFORMATION

Sample Number	VCP396390	VCP363692	---	---
Sample Date	10 Oct 2023	01 Nov 2022	---	---
Machine Hours	4362	1872	---	---
Oil Hours	500	500	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

ALTA EQUIPMENT COMPANY

1035 WYLIE DRIVE
 BLOOMINGTON, IL
 US 61705

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OIL CONDITION

Visc @ 100°C	cSt	█ 13.6	█ 13.1	---	---
Base Number (BN)	mg KOH/g	█ 5.7	█ 10.9	---	---
Oxidation (PA)	%	107	65	---	---

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. 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

Soot %	%	█ 0.4	█ 0.1	---	---
Nitration (PA)	%	99	63	---	---
Sulfation (PA)	%	73	57	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 6	█ 3	---	---
Sodium	ppm	█ 1	█ 3	---	---
Potassium	ppm	█ 22	█ 8	---	---



WEAR METALS

Iron	ppm	█ 73	█ 5	---	---
Copper	ppm	█ 2	█ 1	---	---
Lead	ppm	█ 0	█ 0	---	---
Tin	ppm	█ <1	█ <1	---	---
Aluminum	ppm	█ 8	█ 2	---	---
Chromium	ppm	█ 3	█ <1	---	---
Molybdenum	ppm	█ 63	█ 58	---	---
Nickel	ppm	█ <1	█ 2	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	█ 0	█ <1	---	---
Manganese	ppm	█ <1	█ <1	---	---
Vanadium	ppm	0	<1	---	---



ADDITIVES

Calcium	ppm	█ 1227	█ 1136	---	---
Magnesium	ppm	█ 909	█ 942	---	---
Zinc	ppm	█ 1343	█ 1270	---	---
Phosphorus	ppm	█ 1062	█ 1028	---	---
Barium	ppm	█ 1	█ 0	---	---
Boron	ppm	█ 6	█ 4	---	---

Depot: VOLVO5054
Unique No: 10699460
Signed: Doug Bogart
Report Date: 18 Oct 2023



CONSTRUCTION EQUIPMENT



GRAPHS

