

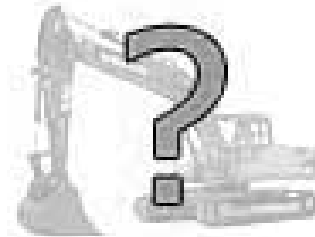


CONSTRUCTION EQUIPMENT

1479 SENNEBOGEN 835 835.0.3228 - DIESEL ENGINE



Sample No: VCP428945
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 1479



SAMPLE INFORMATION

Sample Number	VCP428945	---	---	---
Sample Date	09 Mar 2024	---	---	---
Machine Hours	1231	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

SIMS METAL
 130 NORTH 12TH ST
 SACRAMENTO, CA
 US 95814
 Contact: EVERT

OIL CONDITION

Visc @ 100°C	cSt	▲ 11.0	---	---	---
Base Number (BN)	mg KOH/g	▲ 3.6	---	---	---
Oxidation (PA)	%	98	---	---	---

T: (916)769-7864
 F:

Diagnosis

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. Light fuel dilution occurring. Fuel is present in the oil and is lowering the viscosity. The BN level is low.

CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	■ 0.2	---	---	---
Nitration (PA)	%	101	---	---	---
Sulfation (PA)	%	70	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	▲ 3.1	---	---	---
Silicon	ppm	■ 17	---	---	---
Sodium	ppm	■ 4	---	---	---
Potassium	ppm	82	---	---	---

WEAR METALS

Iron	ppm	■ 49	---	---	---
Copper	ppm	■ 16	---	---	---
Lead	ppm	■ 1	---	---	---
Tin	ppm	■ 2	---	---	---
Aluminum	ppm	23	---	---	---
Chromium	ppm	■ 2	---	---	---
Molybdenum	ppm	■ 80	---	---	---
Nickel	ppm	■ <1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ 6	---	---	---
Vanadium	ppm	<1	---	---	---

ADDITIVES

Calcium	ppm	■ 2093	---	---	---
Magnesium	ppm	■ 151	---	---	---
Zinc	ppm	■ 1164	---	---	---
Phosphorus	ppm	■ 954	---	---	---
Barium	ppm	■ 5	---	---	---
Boron	ppm	■ 34	---	---	---

Depot: SIMSACCA
Unique No: 10937613
Signed: Don Baldrige
Report Date: 22 Mar 2024



CONSTRUCTION EQUIPMENT



GRAPHS

