



CONSTRUCTION EQUIPMENT

607696 SENNEBOGEN 840 2364 - DIESEL ENGINE



Sample No: VCP431914
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 607696



SAMPLE INFORMATION

Sample Number	VCP431914	VCP426589	VCP424844	---
Sample Date	10 Oct 2023	19 Jun 2023	27 Mar 2023	---
Machine Hours	2195	1407	745	---
Oil Hours	500	500	745	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	MARGINAL	ABNORMAL	---

FERROUS PROCESSING AND TRADING
 3400 E LAFAYETTE
 DETROIT, MI
 US 48207
 Contact: KEITH HALL
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 T:
 F:

OIL CONDITION

Visc @ 100°C	cSt	█ 12.9	█ 12.8	▲ 10.8	---
Base Number (BN)	mg KOH/g	█ 5.5	█ 5.8	█ 6.5	---
Oxidation (PA)	%	79	79	76	---

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 suitable for further service.

CONTAMINATION

Soot %	%	█ 0.2	█ 0.2	█ 0.2	---
Nitration (PA)	%	93	85	88	---
Sulfation (PA)	%	63	60	58	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	▲ 2.0	▲ 5.1	---
Silicon	ppm	█ 4	█ 5	█ 17	---
Sodium	ppm	█ 3	█ 2	█ 5	---
Potassium	ppm	█ 22	█ 12	█ 35	---

WEAR METALS

Iron	ppm	█ 17	█ 15	█ 34	---
Copper	ppm	█ 1	█ 3	█ 14	---
Lead	ppm	█ <1	█ 0	█ <1	---
Tin	ppm	█ 0	█ <1	█ <1	---
Aluminum	ppm	█ 8	█ 5	█ 11	---
Chromium	ppm	█ <1	█ <1	█ 1	---
Molybdenum	ppm	█ 60	█ 63	█ 81	---
Nickel	ppm	█ 0	█ 0	█ 0	---
Titanium	ppm	0	0	<1	---
Silver	ppm	█ 0	█ 0	█ 0	---
Manganese	ppm	█ <1	█ <1	█ 4	---
Vanadium	ppm	0	0	0	---

ADDITIVES

Calcium	ppm	█ 2192	█ 2227	█ 2139	---
Magnesium	ppm	42	48	█ 160	---
Zinc	ppm	█ 1099	█ 1225	█ 1195	---
Phosphorus	ppm	█ 981	█ 972	█ 985	---
Barium	ppm	█ 0	█ 0	█ 8	---
Boron	ppm	█ 27	█ 37	█ 46	---

Depot: FERDET
Unique No: 10729736
Signed: Wes Davis
Report Date: 09 Nov 2023



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GRAPHS

