



CONSTRUCTION EQUIPMENT

SPM502739 OMNISOURCE SENNEBOGEN 825 825.0.2100 - DIESEL ENGINE



Sample No: VCP373256
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SPM502739 OMNISOURCE



SAMPLE INFORMATION

Sample Number	VCP373256	VCP373726	VCP356578	VCP317377
Sample Date	10 Feb 2023	10 Aug 2022	04 Mar 2022	26 Jul 2021
Machine Hours	8011	7501	6960	6384
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.9	14.3	13.9	14.1
Base Number (BN)	mg KOH/g	9.2	9.9	9.2	---
Oxidation (PA)	%	73	93	85	101

CONTAMINATION

Soot %	%	0.9	1	1	1
Nitration (PA)	%	83	98	93	97
Sulfation (PA)	%	62	71	68	75
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	4	4	5
Sodium	ppm	1	0	0	<1
Potassium	ppm	0	2	2	<1

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.

WEAR METALS

Iron	ppm	19	21	24	25
Copper	ppm	<1	1	1	2
Lead	ppm	<1	<1	<1	1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	2	4	4	0
Chromium	ppm	1	<1	1	2
Molybdenum	ppm	66	56	50	51
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1182	1497	1426	1810
Magnesium	ppm	978	655	774	623
Zinc	ppm	1316	1185	1136	1161
Phosphorus	ppm	1044	976	930	990
Barium	ppm	0	0	0	0
Boron	ppm	2	27	31	60

Depot: VOLVO5023
Unique No: 10338869
Signed: Sean Felton
Report Date: 17 Feb 2023



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GRAPHS

