



CONSTRUCTION EQUIPMENT

X58881 VOLVO EC220EL 311040 - DIESEL ENGINE



Sample No: VCP426002
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: X58881



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SAMPLE INFORMATION

Sample Number	VCP426002	VCP413462	VCP379169	VCP333010
Sample Date	15 Nov 2023	02 Aug 2023	26 Aug 2022	18 Feb 2022
Machine Hours	6713	6050	4159	3293
Oil Hours	6713	0	0	0
Oil Changed	Changed	N/A	Changed	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

OIL CONDITION

Visc @ 100°C	cSt	13.3	13.3	14.3	14.0
Base Number (BN)	mg KOH/g	9.4	9.3	10.3	7.9
Oxidation (PA)	%	83	85	98	93

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.7	0.7	0.7	0.6
Nitration (PA)	%	75	77	103	103
Sulfation (PA)	%	63	62	69	68
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	8	9	9
Sodium	ppm	<1	0	2	5
Potassium	ppm	3	2	0	2

WEAR METALS

Iron	ppm	21	26	29	36
Copper	ppm	<1	2	4	3
Lead	ppm	0	0	<1	<1
Tin	ppm	<1	<1	1	1
Aluminum	ppm	2	3	4	4
Chromium	ppm	1	1	1	2
Molybdenum	ppm	39	43	35	39
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	<1	0	0	0
Silver	ppm	0	<1	<1	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1805	1739	1881	1893
Magnesium	ppm	441	493	443	633
Zinc	ppm	1160	1167	1194	1050
Phosphorus	ppm	964	953	961	893
Barium	ppm	0	0	0	2
Boron	ppm	40	17	24	26

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.

Depot: SCOSAI
Unique No: 10751271
Signed: Wes Davis
Report Date: 21 Nov 2023



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GRAPHS

