



CONSTRUCTION EQUIPMENT

X58326 VOLVO EC220EL 311040 - DIESEL ENGINE



Sample No: VCP413462
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: X58326



SAMPLE INFORMATION

Sample Number	VCP413462	VCP379169	VCP333010	VCP317765
Sample Date	02 Aug 2023	26 Aug 2022	18 Feb 2022	16 Jul 2021
Machine Hours	6050	4159	3293	2194
Oil Hours	0	0	0	0
Oil Changed	N/A	Changed	N/A	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.3	14.3	14.0	13.7
Base Number (BN)	mg KOH/g	9.3	10.3	7.9	---
Oxidation (PA)	%	85	98	93	89

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 %	%	0.7	0.7	0.6	0.4
Nitration (PA)	%	77	103	103	82
Sulfation (PA)	%	62	69	68	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	8	9	9	10
Sodium	ppm	0	2	5	3
Potassium	ppm	2	0	2	<1



WEAR METALS

Iron	ppm	26	29	36	35
Copper	ppm	2	4	3	3
Lead	ppm	0	<1	<1	<1
Tin	ppm	<1	1	1	1
Aluminum	ppm	3	4	4	2
Chromium	ppm	1	1	2	1
Molybdenum	ppm	43	35	39	41
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	0	0	<1
Silver	ppm	<1	<1	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1739	1881	1893	1701
Magnesium	ppm	493	443	633	527
Zinc	ppm	1167	1194	1050	1073
Phosphorus	ppm	953	961	893	968
Barium	ppm	0	0	2	0
Boron	ppm	17	24	26	27

Depot: SCOSAI
Unique No: 10589080
Signed: Wes Davis
Report Date: 08 Aug 2023



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GRAPHS

