



CONSTRUCTION EQUIPMENT

730087 PADNOS VOLVO EC220D 210528 - DIESEL ENGINE



Sample No: VCP453536
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 730087 PADNOS



SAMPLE INFORMATION

Sample Number	VCP453536	VCP368703	VCP249702	VCP238848
Sample Date	20 Jun 2024	01 Dec 2022	03 May 2019	19 Jan 2019
Machine Hours	11524	10304	6094	5511
Oil Hours	500	1200	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	14.1	13.5	12.8	13.35
Base Number (BN)	mg KOH/g	8.6	5.7	---	---
Oxidation (PA)	%	79	124	82	87

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

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.3	0.6	0.2	0.2
Nitration (PA)	%	88	123	69	77
Sulfation (PA)	%	58	89	58	58
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	9	5	6
Sodium	ppm	5	3	2	4
Potassium	ppm	2	3	1	<1



WEAR METALS

Iron	ppm	30	66	14	19
Copper	ppm	2	6	2	2
Lead	ppm	1	9	0	<1
Tin	ppm	<1	1	0	<1
Aluminum	ppm	8	11	17	15
Chromium	ppm	<1	2	<1	<1
Molybdenum	ppm	61	60	33	37
Nickel	ppm	<1	0	<1	<1
Titanium	ppm	<1	13	1	10
Silver	ppm	0	0	0	0
Manganese	ppm	<1	1	<1	<1
Vanadium	ppm	<1	<1	0	0



ADDITIVES

Calcium	ppm	1304	1605	1787	1758
Magnesium	ppm	1009	843	445	536
Zinc	ppm	1426	1353	921	925
Phosphorus	ppm	1143	1082	709	812
Barium	ppm	0	0	0	0
Boron	ppm	8	16	42	30

Depot: VOLVO2990
Unique No: 11100185
Signed: Wes Davis
Report Date: 27 Jun 2024



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GRAPHS

