



CONSTRUCTION EQUIPMENT

703482 IHFT VOLVO EC300E 311561 - DIESEL ENGINE



Sample No: VCP453664
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 703482 IHFT



SAMPLE INFORMATION

Sample Number	VCP453664	VCP399337	VCP366144	VCP332896
Sample Date	09 May 2024	13 Feb 2023	13 Sep 2022	05 Apr 2022
Machine Hours	12076	9288	8823	8136
Oil Hours	500	500	600	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.6	13.2	13.6	13.8
Base Number (BN)	mg KOH/g	8.5	7.8	9.7	8.5
Oxidation (PA)	%	69	54	66	55

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 %	%	0.2	0.1	0.2	0.1
Nitration (PA)	%	71	70	71	69
Sulfation (PA)	%	55	50	57	52
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	8	6	5	4
Sodium	ppm	4	2	2	2
Potassium	ppm	5	1	1	<1



WEAR METALS

Iron	ppm	14	7	9	4
Copper	ppm	4	<1	1	<1
Lead	ppm	3	<1	0	<1
Tin	ppm	3	<1	<1	<1
Aluminum	ppm	6	6	5	3
Chromium	ppm	3	<1	<1	<1
Molybdenum	ppm	69	85	59	75
Nickel	ppm	3	0	0	0
Titanium	ppm	3	<1	<1	0
Silver	ppm	3	0	0	<1
Manganese	ppm	3	<1	<1	<1
Vanadium	ppm	2	0	0	0



ADDITIVES

Calcium	ppm	1451	2127	1669	2103
Magnesium	ppm	693	174	599	112
Zinc	ppm	1219	1221	1257	1132
Phosphorus	ppm	994	1008	990	1016
Barium	ppm	1	0	0	0
Boron	ppm	16	51	22	59

Depot: VOLVO2990
Unique No: 11033685
Signed: Don Baldrige
Report Date: 20 May 2024



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VOLVO GRAPHS

