



CONSTRUCTION EQUIPMENT

R23767 IAA ENGLISHTO VOLVO L90H 623586 - DIESEL ENGINE



Sample No: VCP441971
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: R23767 IAA ENGLISHTO



SAMPLE INFORMATION

Sample Number	VCP441971	VCP383581	VCP348014	VCP279733
Sample Date	01 Dec 2023	01 Nov 2022	20 Jan 2022	22 Dec 2020
Machine Hours	10584	10307	9874	8480
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.4	13.5	13.9	13.3
Base Number (BN)	mg KOH/g	9.9	11.4	11.3	---
Oxidation (PA)	%	61	92	96	107

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	0.3	0.3	0.6
Nitration (PA)	%	53	71	74	97
Sulfation (PA)	%	52	66	68	68
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	8	6	7
Sodium	ppm	0	3	2	3
Potassium	ppm	2	1	0	0



WEAR METALS

Iron	ppm	12	8	9	22
Copper	ppm	<1	<1	<1	2
Lead	ppm	0	0	0	<1
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	3	3	3	4
Chromium	ppm	<1	<1	<1	1
Molybdenum	ppm	61	43	41	41
Nickel	ppm	0	<1	0	0
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1104	1861	1712	1801
Magnesium	ppm	872	557	495	513
Zinc	ppm	1186	1263	1132	928
Phosphorus	ppm	1033	1064	917	718
Barium	ppm	3	0	0	0
Boron	ppm	5	40	36	26

Depot: HOFPISNJ
Unique No: 10778857
Signed: Don Baldrige
Report Date: 11 Dec 2023



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GRAPHS

