



CONSTRUCTION EQUIPMENT

S281 IAA VOLVO L90H 625095 - DIESEL ENGINE



Sample No: VCP372841
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: S281 IAA



SAMPLE INFORMATION

Sample Number	VCP372841	VCP337596	VCP351785	VCP294468
Sample Date	18 Jul 2023	08 Dec 2022	05 Jul 2022	29 Jul 2021
Machine Hours	5559	4694	0	2609
Oil Hours	500	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

VCES- VOLVO CONSTRUCTION EQUIPMENT
 12345 MAPLEVIEW STREET
 LAKESIDE, CA
 US 92040
 Contact: Mark Stewart
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 T: X
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OIL CONDITION

Visc @ 100°C	cSt	13.5	13.7	13.5	13.0
Base Number (BN)	mg KOH/g	10.0	11.7	11.2	---
Oxidation (PA)	%	90	91	85	82



CONTAMINATION

Soot %	%	0.7	0.4	0.2	0.5
Nitration (PA)	%	82	70	58	64
Sulfation (PA)	%	63	67	63	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	6	5	7
Sodium	ppm	3	0	11	2
Potassium	ppm	0	1	7	6



WEAR METALS

Iron	ppm	17	13	9	16
Copper	ppm	1	<1	<1	<1
Lead	ppm	0	0	<1	0
Tin	ppm	<1	0	1	0
Aluminum	ppm	4	2	2	3
Chromium	ppm	<1	<1	<1	1
Molybdenum	ppm	47	44	42	43
Nickel	ppm	<1	0	0	<1
Titanium	ppm	<1	0	0	<1
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1927	1800	1739	1701
Magnesium	ppm	566	513	523	535
Zinc	ppm	1228	1185	1156	1122
Phosphorus	ppm	1008	1010	958	933
Barium	ppm	0	0	0	0
Boron	ppm	35	35	51	36

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: VOLVO4488
Unique No: 10577355
Signed: Wes Davis
Report Date: 31 Jul 2023



CONSTRUCTION EQUIPMENT



GRAPHS

