



CONSTRUCTION EQUIPMENT

1107 VOLVO A35G 342052 - DIESEL ENGINE



Sample No: VCP441690
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 1107



SAMPLE INFORMATION

Sample Number	VCP441690	VCP379907	VCP307421	VCP266922
Sample Date	08 Nov 2023	24 Feb 2023	02 Jul 2021	14 May 2020
Machine Hours	6131	5488	3078	2665
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

VCES- VOLVO CONSTRUCTION EQUIPMENT
 8594 FRUITRIDGE ROAD
 SACRAMENTO, CA
 US 95826
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 T:
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OIL CONDITION

Visc @ 100°C	cSt	12.1	12.4	12.5	12.2
Base Number (BN)	mg KOH/g	9.3	8.4	---	---
Oxidation (PA)	%	78	89	86	86

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	0.2	0.1
Nitration (PA)	%	61	88	58	58
Sulfation (PA)	%	61	62	66	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	6	5	7
Sodium	ppm	3	1	2	2
Potassium	ppm	0	1	<1	0



WEAR METALS

Iron	ppm	11	16	15	8
Copper	ppm	16	4	18	6
Lead	ppm	1	1	<1	0
Tin	ppm	<1	1	<1	0
Aluminum	ppm	5	5	0	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	38	39	37	38
Nickel	ppm	0	<1	<1	0
Titanium	ppm	<1	0	<1	<1
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1654	1644	1658	1724
Magnesium	ppm	474	476	485	540
Zinc	ppm	1020	1107	1005	842
Phosphorus	ppm	790	916	907	772
Barium	ppm	0	0	0	0
Boron	ppm	42	27	100	39

Depot: VOLVO4485
Unique No: 10753838
Signed: Jonathan Hester
Report Date: 27 Nov 2023



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS

