



CONSTRUCTION EQUIPMENT

1314 IAA RANCHO CORD VOLVO L90G 3186 - DIESEL ENGINE



Sample No: VCP441931
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 1314 IAA RANCHO CORD



SAMPLE INFORMATION

Sample Number	VCP441931	VCP307439	VCP294439	VCP249136
Sample Date	20 Nov 2023	05 Aug 2021	01 Feb 2021	19 Jun 2019
Machine Hours	16494	15703	15288	13230
Oil Hours	0	0	0	515
Oil Changed	Changed	Not Changd	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:
 F:



OIL CONDITION

Visc @ 100°C	cSt	12.8	12.8	13.0	13.0
Base Number (BN)	mg KOH/g	10.1	---	---	---
Oxidation (PA)	%	81	93	81	81

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 acceptable for the time in service.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0	0.2	0.3
Nitration (PA)	%	58	61	60	59
Sulfation (PA)	%	60	73	61	59
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	10	6	6	11
Sodium	ppm	6	4	4	7
Potassium	ppm	<1	0	12	10



WEAR METALS

Iron	ppm	16	7	8	11
Copper	ppm	<1	<1	<1	<1
Lead	ppm	0	0	0	0
Tin	ppm	<1	<1	0	0
Aluminum	ppm	12	3	5	8
Chromium	ppm	1	<1	<1	<1
Molybdenum	ppm	40	42	38	44
Nickel	ppm	0	<1	<1	<1
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1578	1744	1796	1910
Magnesium	ppm	440	508	578	568
Zinc	ppm	1087	1064	1061	898
Phosphorus	ppm	927	991	962	822
Barium	ppm	0	0	0	0
Boron	ppm	47	56	42	36

Depot: VOLVO4485
Unique No: 10764764
Signed: Don Baldrige
Report Date: 01 Dec 2023



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GRAPHS

