



CONSTRUCTION EQUIPMENT

1313 IAA RANCHO CORD VOLVO L90H 625741 - DIESEL ENGINE



Sample No: VCP423011
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 1313 IAA RANCHO CORD



SAMPLE INFORMATION

Sample Number	VCP423011	VCP404698	VCP381082	VCP346658
Sample Date	16 Nov 2023	17 Apr 2023	09 Nov 2022	31 Jan 2022
Machine Hours	3823	2761	2011	1029
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

VCES- VOLVO CONSTRUCTION EQUIPMENT
 8594 FRUITRIDGE ROAD
 SACRAMENTO, CA
 US 95826
 Contact: RAY KRANZUSCH
 ray.kranzusch@vcesvolvo.com
 T:
 F:



OIL CONDITION

Visc @ 100°C	cSt	12.9	13.3	13.4	13.3
Base Number (BN)	mg KOH/g	10.6	8.9	12.1	11.7
Oxidation (PA)	%	81	79	88	85



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.3	0.2	0.3
Nitration (PA)	%	53	59	58	57
Sulfation (PA)	%	61	56	66	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	7	5	7
Sodium	ppm	3	2	<1	3
Potassium	ppm	<1	2	1	<1

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.



WEAR METALS

Iron	ppm	3	12	9	18
Copper	ppm	<1	<1	<1	1
Lead	ppm	0	<1	0	<1
Tin	ppm	<1	1	<1	1
Aluminum	ppm	2	6	5	11
Chromium	ppm	<1	1	<1	2
Molybdenum	ppm	36	40	42	40
Nickel	ppm	0	<1	0	<1
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	1565	1732	1709	1817
Magnesium	ppm	481	532	478	532
Zinc	ppm	1153	1232	1144	1178
Phosphorus	ppm	971	1007	944	1035
Barium	ppm	0	0	2	0
Boron	ppm	42	38	46	96

Depot: VOLVO4485
Unique No: 10764766
Signed: Wes Davis
Report Date: 30 Nov 2023



CONSTRUCTION EQUIPMENT



GRAPHS

