



CONSTRUCTION EQUIPMENT

1310 IAA RANCHO CORD VOLVO L90H 623903 - DIESEL ENGINE



Sample No: VCP441701
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 1310 IAA RANCHO CORD



SAMPLE INFORMATION

Sample Number	VCP441701	VCP425895	VCP379911	VCP375066
Sample Date	16 Nov 2023	06 Jul 2023	03 Mar 2023	02 Sep 2022
Machine Hours	10462	10036	9495	9048
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

VCES- VOLVO CONSTRUCTION EQUIPMENT
 8594 FRUITRIDGE ROAD
 SACRAMENTO, CA
 US 95826
 Contact: RAY KRANZUSCH
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 T:
 F:



OIL CONDITION

Visc @ 100°C	cSt	12.9	12.9	13.0	13.6
Base Number (BN)	mg KOH/g	10.1	10.0	10.9	9.2
Oxidation (PA)	%	83	88	83	62

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	0.4	0.2
Nitration (PA)	%	56	62	63	69
Sulfation (PA)	%	61	63	62	53
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	6	7	6
Sodium	ppm	2	2	2	2
Potassium	ppm	<1	<1	1	0



WEAR METALS

Iron	ppm	3	9	12	11
Copper	ppm	0	<1	1	<1
Lead	ppm	0	0	<1	<1
Tin	ppm	<1	0	<1	1
Aluminum	ppm	2	4	4	3
Chromium	ppm	<1	<1	1	<1
Molybdenum	ppm	36	40	40	42
Nickel	ppm	0	0	<1	<1
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	<1	<1



ADDITIVES

Calcium	ppm	1557	1758	1644	1696
Magnesium	ppm	491	544	473	509
Zinc	ppm	1081	1228	1189	1141
Phosphorus	ppm	897	1013	1002	924
Barium	ppm	0	0	0	0
Boron	ppm	36	42	37	35

Depot: VOLVO4485
Unique No: 10764767
Signed: Wes Davis
Report Date: 30 Nov 2023



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GRAPHS

