



CONSTRUCTION EQUIPMENT

S631 IAA RANCHO CORD VOLVO L90H 623903 - DIESEL ENGINE



Sample No: VCP425895
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: S631 IAA RANCHO CORD



SAMPLE INFORMATION

Sample Number	VCP425895	VCP379911	VCP375066	VCP357155
Sample Date	06 Jul 2023	03 Mar 2023	02 Sep 2022	05 May 2022
Machine Hours	10036	9495	9048	6496
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
 Contact: RAY KRANZUSCH
 ray.kranzusch@vcesvolvo.com
 T:
 F:



OIL CONDITION

Visc @ 100°C	cSt	12.9	13.0	13.6	13.6
Base Number (BN)	mg KOH/g	10.0	10.9	9.2	8.9
Oxidation (PA)	%	88	83	62	39



CONTAMINATION

Soot %	%	0.3	0.4	0.2	0.1
Nitration (PA)	%	62	63	69	48
Sulfation (PA)	%	63	62	53	45
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	7	6	8
Sodium	ppm	2	2	2	2
Potassium	ppm	<1	1	0	0



WEAR METALS

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



ADDITIVES

Calcium	ppm	1758	1644	1696	1763
Magnesium	ppm	544	473	509	537
Zinc	ppm	1228	1189	1141	1106
Phosphorus	ppm	1013	1002	924	977
Barium	ppm	0	0	0	0
Boron	ppm	42	37	35	39

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: VOLVO4485
Unique No: 10550011
Signed: Wes Davis
Report Date: 11 Jul 2023



CONSTRUCTION EQUIPMENT



GRAPHS

