



CONSTRUCTION EQUIPMENT

IAA RANCHO VOLVO L90H 625739 - DIESEL ENGINE



Sample No: VCP452321
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: IAA RANCHO



SAMPLE INFORMATION

Sample Number	VCP452321	VCP442512	VCP441706	VCP404700
Sample Date	03 Jun 2024	28 Feb 2024	17 Nov 2023	28 Apr 2023
Machine Hours	6478	5968	5472	4500
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
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T:
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OIL CONDITION

Visc @ 100°C	cSt	12.8	13.0	13.0	12.8
Base Number (BN)	mg KOH/g	10.4	10.3	10.6	9.4
Oxidation (PA)	%	82	83	81	77

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	0.2	0.2	0.2
Nitration (PA)	%	55	57	54	52
Sulfation (PA)	%	61	60	61	56
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	9	5	5	6
Sodium	ppm	3	2	3	3
Potassium	ppm	2	0	<1	2



WEAR METALS

Iron	ppm	10	5	3	6
Copper	ppm	<1	<1	0	0
Lead	ppm	0	0	0	<1
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	4	2	2	<1
Chromium	ppm	1	0	<1	<1
Molybdenum	ppm	50	37	36	39
Nickel	ppm	<1	0	0	<1
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	<1	0	0	<1



ADDITIVES

Calcium	ppm	2028	1654	1573	1668
Magnesium	ppm	604	476	484	528
Zinc	ppm	1340	1011	1141	1175
Phosphorus	ppm	1048	861	963	961
Barium	ppm	0	0	0	0
Boron	ppm	58	41	40	46

Depot: VOLVO4485
Unique No: 11073686
Signed: Wes Davis
Report Date: 13 Jun 2024



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VOLVO GRAPHS

