



CONSTRUCTION EQUIPMENT

S50601212 IAA FREMON VOLVO L90H 625541 - DIESEL ENGINE



Sample No: VCP403972
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: S50601212 IAA FREMON



SAMPLE INFORMATION

Sample Number	VCP403972	VCP340929	VCP369644	VCP337820
Sample Date	19 Oct 2023	14 Jul 2023	19 Apr 2023	18 Jul 2022
Machine Hours	4480	4009	3580	2581
Oil Hours	0	0	0	500
Oil Changed	Changed	Changed	Changed	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

VCES- VOLVO CONSTRUCTION EQUIPMENT

1944 MARINA BLVD
 SAN LEANDRO, CA
 US 94577

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OIL CONDITION

Visc @ 100°C	cSt	13.0	13.3	13.6	13.2
Base Number (BN)	mg KOH/g	8.9	10.6	9.2	11.6
Oxidation (PA)	%	84	88	84	90



CONTAMINATION

Soot %	%	0.3	0.3	0.3	0.2
Nitration (PA)	%	63	65	63	64
Sulfation (PA)	%	61	65	58	67
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	6	6	6
Sodium	ppm	3	3	2	2
Potassium	ppm	1	<1	1	1



WEAR METALS

Iron	ppm	9	8	12	8
Copper	ppm	<1	<1	<1	<1
Lead	ppm	0	<1	0	<1
Tin	ppm	1	<1	<1	<1
Aluminum	ppm	3	4	3	3
Chromium	ppm	<1	<1	<1	1
Molybdenum	ppm	44	43	41	38
Nickel	ppm	<1	0	<1	<1
Titanium	ppm	<1	<1	0	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	1662	1928	1650	1644
Magnesium	ppm	528	552	489	497
Zinc	ppm	1110	1232	1122	1130
Phosphorus	ppm	990	987	948	866
Barium	ppm	19	0	2	0
Boron	ppm	32	35	35	46

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: VOLVO4487
Unique No: 10716175
Signed: Wes Davis
Report Date: 31 Oct 2023



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS

