



CONSTRUCTION EQUIPMENT

S2214 IAA FREMONT VOLVO L90H 623642 - DIESEL ENGINE



Sample No: VCP446592
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: S2214 IAA FREMONT



SAMPLE INFORMATION

Sample Number	VCP446592	VCP428951	VCP345491	VCP369642
Sample Date	03 Apr 2024	18 Dec 2023	03 Aug 2023	25 Apr 2023
Machine Hours	12482	11933	11467	10944
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

VCES- VOLVO CONSTRUCTION EQUIPMENT
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OIL CONDITION

Visc @ 100°C	cSt	13.0	12.8	13.7	13.3
Base Number (BN)	mg KOH/g	10.2	10.0	10.3	9.3
Oxidation (PA)	%	86	86	87	83

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 %	%	0.3	0.4	0.4	0.3
Nitration (PA)	%	66	62	68	62
Sulfation (PA)	%	62	63	63	58
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	9	6	6
Sodium	ppm	3	3	2	2
Potassium	ppm	<1	<1	1	0



WEAR METALS

Iron	ppm	9	8	9	7
Copper	ppm	<1	<1	<1	0
Lead	ppm	0	0	<1	0
Tin	ppm	0	<1	<1	0
Aluminum	ppm	4	4	2	4
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	43	43	41	39
Nickel	ppm	<1	0	0	0
Titanium	ppm	<1	0	<1	0
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	<1	0	<1



ADDITIVES

Calcium	ppm	1887	1718	1720	1721
Magnesium	ppm	541	533	506	513
Zinc	ppm	1235	1160	1132	1185
Phosphorus	ppm	1010	1013	918	960
Barium	ppm	0	0	0	0
Boron	ppm	39	43	30	34

Depot: VOLVO4487
Unique No: 10966851
Signed: Wes Davis
Report Date: 09 Apr 2024



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GRAPHS

