



CONSTRUCTION EQUIPMENT

19691 KOPPERS VOLVO L120H 632722 - DIESEL ENGINE



Sample No: VCP412134
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 19691 KOPPERS



SAMPLE INFORMATION

Sample Number	VCP412134	VCP418384	VCP421264	VCP424397
Sample Date	21 Sep 2023	30 Jun 2023	15 Jun 2023	13 Apr 2023
Machine Hours	5554	5097	4995	4605
Oil Hours	457	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.9	13.2	14.5	14.0
Base Number (BN)	mg KOH/g	9.2	10.9	9.5	8.6
Oxidation (PA)	%	63	79	71	63

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 acceptable for the time in service.



CONTAMINATION

Soot %	%	0.4	0.2	0.3	0.4
Nitration (PA)	%	61	51	64	67
Sulfation (PA)	%	54	61	58	54
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	3	4	6
Sodium	ppm	1	0	1	2
Potassium	ppm	4	2	3	7



WEAR METALS

Iron	ppm	11	4	11	16
Copper	ppm	1	<1	<1	2
Lead	ppm	1	0	0	0
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	4	2	6	9
Chromium	ppm	1	<1	<1	2
Molybdenum	ppm	58	42	46	62
Nickel	ppm	0	<1	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1195	1611	1415	1160
Magnesium	ppm	924	488	635	928
Zinc	ppm	1266	1097	1121	1278
Phosphorus	ppm	1016	951	1038	1050
Barium	ppm	0	0	0	0
Boron	ppm	6	55	34	12

Depot: VOLVO8769
Unique No: 10673383
Signed: Don Baldrige
Report Date: 04 Oct 2023



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VOLVO GRAPHS

