



CONSTRUCTION EQUIPMENT

19481 KOPPERS VOLVO L120H 632917 - DIESEL ENGINE



Sample No: VCP432671
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 19481 KOPPERS



SAMPLE INFORMATION

Sample Number	VCP432671	VCP420283	VCP403746	VCP388676
Sample Date	06 Sep 2023	26 May 2023	07 Mar 2023	26 Jan 2023
Machine Hours	4106	3535	3025	2683
Oil Hours	0	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	13.0	13.4	14.1	13.7
Base Number (BN)	mg KOH/g	10.7	10.4	9.5	8.5
Oxidation (PA)	%	81	74	56	62



CONTAMINATION

Soot %	%	0.3	0.3	0.2	0.3
Nitration (PA)	%	58	55	53	70
Sulfation (PA)	%	62	59	51	53
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	4	3	4
Sodium	ppm	2	1	0	1
Potassium	ppm	2	0	2	<1

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.



WEAR METALS

Iron	ppm	9	8	8	16
Copper	ppm	1	2	3	10
Lead	ppm	<1	0	<1	3
Tin	ppm	<1	<1	<1	2
Aluminum	ppm	4	<1	3	4
Chromium	ppm	<1	<1	<1	1
Molybdenum	ppm	45	49	61	65
Nickel	ppm	0	0	<1	<1
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1842	1637	1174	1375
Magnesium	ppm	572	670	852	746
Zinc	ppm	1225	1210	1210	1244
Phosphorus	ppm	975	970	1017	965
Barium	ppm	0	0	0	0
Boron	ppm	39	36	14	16

Depot: VOLVO8769
Unique No: 10647158
Signed: Wes Davis
Report Date: 16 Sep 2023



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GRAPHS

