



CONSTRUCTION EQUIPMENT

19121 KOPPERS VOLVO L120H 632722 - DIESEL ENGINE



Sample No: VCP418384
Oil Type: DIESEL ENGINE OIL SAE 40
Job No: 19121 KOPPERS



SAMPLE INFORMATION

Sample Number	VCP418384	VCP421264	VCP424397	VCP332475
Sample Date	30 Jun 2023	15 Jun 2023	13 Apr 2023	15 Apr 2022
Machine Hours	5097	4995	4605	2467
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	13.2	14.5	14.0	14.0
Base Number (BN)	mg KOH/g	10.9	9.5	8.6	9.8
Oxidation (PA)	%	79	71	63	96

CONTAMINATION

Soot %	%	0.2	0.3	0.4	1.4
Nitration (PA)	%	51	64	67	99
Sulfation (PA)	%	61	58	54	73
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	4	6	6
Sodium	ppm	0	1	2	2
Potassium	ppm	2	3	7	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	4	11	16	34
Copper	ppm	<1	<1	2	13
Lead	ppm	0	0	0	4
Tin	ppm	<1	<1	<1	4
Aluminum	ppm	2	6	9	12
Chromium	ppm	<1	<1	2	2
Molybdenum	ppm	42	46	62	41
Nickel	ppm	<1	0	<1	0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1611	1415	1160	1817
Magnesium	ppm	488	635	928	586
Zinc	ppm	1097	1121	1278	1271
Phosphorus	ppm	951	1038	1050	1018
Barium	ppm	0	0	0	0
Boron	ppm	55	34	12	28

Depot: VOLVO8769
Unique No: 10552483
Signed: Wes Davis
Report Date: 13 Jul 2023



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GRAPHS

