



CONSTRUCTION EQUIPMENT

VOLVO L120H 632094 - DIESEL ENGINE



Sample No: VCP422085
Oil Type: KENDALL SUPER-D XA 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP422085	VCP346561	VCP346562	VCP309333
Sample Date	02 Feb 2024	05 Nov 2022	14 Mar 2022	09 Dec 2021
Machine Hours	17426	16478	15556	14980
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	14.8	14.3	14.6	14.8
Base Number (BN)	mg KOH/g	7.3	6.5	7.6	8.2
Oxidation (PA)	%	49	67	65	62

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.4	0.5	0.6	0.3
Nitration (PA)	%	48	93	88	78
Sulfation (PA)	%	47	63	62	60
Glycol	%	NEG	0.0	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	5	4	4
Sodium	ppm	6	7	4	3
Potassium	ppm	▲ 56	51	19	4

WEAR METALS

Iron	ppm	25	25	11	8
Copper	ppm	2	2	<1	<1
Lead	ppm	0	2	<1	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	6	4	4	2
Chromium	ppm	<1	1	<1	<1
Molybdenum	ppm	38	66	50	7
Nickel	ppm	0	<1	0	<1
Titanium	ppm	40	15	26	43
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	<1	<1	<1

ADDITIVES

Calcium	ppm	1547	2087	2013	1547
Magnesium	ppm	464	302	299	508
Zinc	ppm	1202	1334	1317	1220
Phosphorus	ppm	982	1071	1143	1024
Barium	ppm	0	0	0	0
Boron	ppm	47	21	63	72

Diagnosis

Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. Sodium and/or potassium levels are high. Test for glycol is negative. 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.

Depot: GREDAVFL
Unique No: 10884417
Signed: Jonathan Hester
Report Date: 20 Feb 2024



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VOLVO GRAPHS

