



CONSTRUCTION EQUIPMENT

G08127 VOLVO L90H 624997 - DIESEL ENGINE



Sample No: VCP435252
Oil Type: DIESEL ENGINE OIL SAE 40
Job No: G08127



SAMPLE INFORMATION

Sample Number	VCP435252	VCP383564	VCP383567	VCP326277
Sample Date	07 Dec 2023	19 Jan 2023	19 Jan 2023	08 Sep 2021
Machine Hours	4596	3760	3760	3324
Oil Hours	0	0	0	0
Oil Changed	N/A	N/A	N/A	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.9	13.7	14.1	12.7
Base Number (BN)	mg KOH/g	8.1	9.0	7.7	---
Oxidation (PA)	%	55	48	54	73

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.6	0.1	0.7	0.3
Nitration (PA)	%	67	63	71	56
Sulfation (PA)	%	52	47	53	59
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	5	5	7
Sodium	ppm	3	1	1	3
Potassium	ppm	1	2	2	0

WEAR METALS

Iron	ppm	9	6	23	7
Copper	ppm	1	0	1	<1
Lead	ppm	0	0	0	0
Tin	ppm	0	<1	<1	0
Aluminum	ppm	6	3	4	4
Chromium	ppm	<1	<1	1	<1
Molybdenum	ppm	20	16	16	46
Nickel	ppm	0	0	0	<1
Titanium	ppm	35	7	7	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	1810	2146	2193	1764
Magnesium	ppm	472	194	192	564
Zinc	ppm	1232	1096	1118	1052
Phosphorus	ppm	1003	940	932	995
Barium	ppm	0	1	1	0
Boron	ppm	52	33	17	48

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.

Depot: VOLVO8880
Unique No: 10781933
Signed: Wes Davis
Report Date: 13 Dec 2023



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GRAPHS

