



CONSTRUCTION EQUIPMENT

G08294 BIG HEAD VOLVO EC160E 314296 - DIESEL ENGINE



Sample No: VCP435182
Oil Type: DIESEL ENGINE OIL SAE 40
Job No: G08294 BIG HEAD



HOFFMAN EQUIPMENT - DEPTFORD
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SAMPLE INFORMATION

Sample Number	VCP435182	VCP409977	VCP362170	---
Sample Date	29 Jan 2024	06 Jul 2023	18 Apr 2022	---
Machine Hours	2086	1719	506	---
Oil Hours	0	0	0	---
Oil Changed	N/A	N/A	N/A	---
Sample Status	NORMAL	NORMAL	NORMAL	---



OIL CONDITION

Visc @ 100°C	cSt	13.1	12.9	12.9	---
Base Number (BN)	mg KOH/g	7.5	7.9	7.4	---
Oxidation (PA)	%	49	57	45	---



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.2	0.2	0.1	---
Nitration (PA)	%	58	69	59	---
Sulfation (PA)	%	48	53	52	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	5	9	18	---
Sodium	ppm	1	2	3	---
Potassium	ppm	<1	3	0	---



WEAR METALS

Iron	ppm	15	24	28	---
Copper	ppm	5	3	13	---
Lead	ppm	1	0	<1	---
Tin	ppm	1	1	2	---
Aluminum	ppm	5	10	15	---
Chromium	ppm	1	1	2	---
Molybdenum	ppm	24	17	5	---
Nickel	ppm	<1	<1	6	---
Titanium	ppm	16	27	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	<1	4	---
Vanadium	ppm	<1	<1	0	---



ADDITIVES

Calcium	ppm	1703	2026	2135	---
Magnesium	ppm	402	333	89	---
Zinc	ppm	1105	1198	937	---
Phosphorus	ppm	957	965	813	---
Barium	ppm	0	0	0	---
Boron	ppm	28	46	11	---

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: 10859454
Signed: Wes Davis
Report Date: 02 Feb 2024



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GRAPHS

