



CONSTRUCTION EQUIPMENT

A12362 HSC VOLVO EC160E 314219 - DIESEL ENGINE



Sample No: VCP444359
Oil Type: MOBIL 15W40
Job No: A12362 HSC



HOFFMAN EQUIPMENT - LIONVILLE
120 GORDON DRIVE
LIONVILLE, PA
US 19341
Contact: JIM FEHR
jim.fehr@hoffmanequip.com
T: (610)363-9200
F: (610)594-0829

SAMPLE INFORMATION

Sample Number	VCP444359	VCP411848	VCP342653	VCP364099
Sample Date	03 Apr 2024	03 Aug 2023	11 Feb 2023	29 Aug 2022
Machine Hours	2695	2235	1738	1193
Oil Hours	500	500	500	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

OIL CONDITION

Visc @ 100°C	cSt	13.2	13.4	13.9	13.1
Base Number (BN)	mg KOH/g	7.4	7.0	7.3	10.3
Oxidation (PA)	%	51	51	75	84

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.3	0.3	0.3	0.3
Nitration (PA)	%	71	69	80	83
Sulfation (PA)	%	49	50	61	64
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	7	8	11
Sodium	ppm	2	<1	2	3
Potassium	ppm	<1	2	8	0

WEAR METALS

Iron	ppm	18	13	17	25
Copper	ppm	2	2	2	4
Lead	ppm	<1	<1	0	0
Tin	ppm	0	1	<1	2
Aluminum	ppm	7	5	7	11
Chromium	ppm	1	1	2	3
Molybdenum	ppm	28	23	7	47
Nickel	ppm	<1	<1	0	<1
Titanium	ppm	<1	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	1
Vanadium	ppm	<1	<1	0	0

ADDITIVES

Calcium	ppm	1768	2093	2291	1794
Magnesium	ppm	442	351	61	495
Zinc	ppm	1029	1261	1237	1119
Phosphorus	ppm	929	972	1017	938
Barium	ppm	0	0	0	1
Boron	ppm	8	9	129	35

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: VOLVO8879
Unique No: 10968727
Signed: Wes Davis
Report Date: 11 Apr 2024



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GRAPHS

