



CONSTRUCTION EQUIPMENT

A12803 VOLVO EC220D 210876 - DIESEL ENGINE



Sample No: VCP439536
Oil Type: MOBIL 15W40
Job No: A12803



SAMPLE INFORMATION

Sample Number	VCP439536	VCP444363	VCP430666	VCP416832
Sample Date	14 Jun 2024	20 Mar 2024	16 Oct 2023	19 Jun 2023
Machine Hours	14465	13980	13460	12979
Oil Hours	500	500	500	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

WASTE MANAGEMENT - TELFORD
 400 PROGRESS DR
 TELFORD, PA
 US 18969-1191
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 T:
 F:

OIL CONDITION

Visc @ 100°C	cSt	13.1	12.9	13.1	13.5
Base Number (BN)	mg KOH/g	6.6	6.7	10.2	7.1
Oxidation (PA)	%	45	47	81	45

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.2	0.2	0.2
Nitration (PA)	%	60	59	55	60
Sulfation (PA)	%	48	48	61	50
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	9	12	17	11
Sodium	ppm	2	2	3	0
Potassium	ppm	4	2	0	2

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	6	4
Copper	ppm	0	<1	0	<1
Lead	ppm	0	0	0	<1
Tin	ppm	<1	0	0	<1
Aluminum	ppm	2	3	2	1
Chromium	ppm	0	<1	0	0
Molybdenum	ppm	5	12	37	16
Nickel	ppm	<1	0	0	<1
Titanium	ppm	25	<1	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	<1	0
Vanadium	ppm	<1	<1	0	0

ADDITIVES

Calcium	ppm	2106	2153	1704	2180
Magnesium	ppm	207	169	508	170
Zinc	ppm	1163	1119	1179	1093
Phosphorus	ppm	994	761	841	925
Barium	ppm	0	0	0	0
Boron	ppm	32	7	33	3

Depot: WASTEL
Unique No: 11088258
Signed: Wes Davis
Report Date: 21 Jun 2024



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GRAPHS

