



CONSTRUCTION EQUIPMENT

VOLVO EC480EL 314981 - DIESEL ENGINE



Sample No: VCP432036
Oil Type: DIESEL ENGINE OIL SAE 30
Job No:



SAMPLE INFORMATION

Sample Number	VCP432036	VCP433870	VCP369463	VCP405900
Sample Date	07 Feb 2024	23 Oct 2023	07 Aug 2023	07 Jun 2023
Machine Hours	2922	2416	1929	1475
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

SAIIA CONSTRUCTION LLC

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OIL CONDITION

Visc @ 100°C	cSt	12.1	12.2	12.2	12.2
Base Number (BN)	mg KOH/g	6.1	8.2	9.1	8.4
Oxidation (PA)	%	73	80	82	85

Diagnosis

Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. 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.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	83	69	67	68
Sulfation (PA)	%	55	57	60	62
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	9	17	10	10
Sodium	ppm	1	3	0	3
Potassium	ppm	2	<1	1	1



WEAR METALS

Iron	ppm	6	6	6	9
Copper	ppm	4	3	3	7
Lead	ppm	0	0	<1	<1
Tin	ppm	<1	<1	<1	1
Aluminum	ppm	2	2	2	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	103	48	44	51
Nickel	ppm	<1	2	0	<1
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	<1



ADDITIVES

Calcium	ppm	1346	1662	1673	1630
Magnesium	ppm	613	542	469	551
Zinc	ppm	907	951	894	988
Phosphorus	ppm	658	773	734	805
Barium	ppm	11	0	2	0
Boron	ppm	41	20	19	22

Depot: SAIBIR
Unique No: 10882781
Signed: Sean Felton
Report Date: 16 Feb 2024



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GRAPHS

