



CONSTRUCTION EQUIPMENT

SWO-069621 EPIROC TMG21 SEDO165 - DIESEL ENGINE



Sample No: VCP444435
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWO-069621



SAMPLE INFORMATION

Sample Number	VCP444435	VCP441642	VCP428890	VCP432933
Sample Date	13 Feb 2024	04 Jan 2024	14 Nov 2023	04 Oct 2023
Machine Hours	4946	4682	4407	4102
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.0	13.2	13.2	13.7
Base Number (BN)	mg KOH/g	9.8	9.8	9.5	8.5
Oxidation (PA)	%	84	84	80	67

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 acceptable for the time in service.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	55	56	54	55
Sulfation (PA)	%	61	61	60	53
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	3	4	4
Sodium	ppm	2	<1	0	2
Potassium	ppm	0	<1	2	0



WEAR METALS

Iron	ppm	3	0	4	2
Copper	ppm	<1	<1	<1	<1
Lead	ppm	0	<1	0	0
Tin	ppm	<1	0	0	<1
Aluminum	ppm	1	2	1	<1
Chromium	ppm	0	<1	0	0
Molybdenum	ppm	40	39	44	49
Nickel	ppm	0	1	<1	0
Titanium	ppm	<1	0	<1	0
Silver	ppm	0	<1	0	0
Manganese	ppm	<1	<1	0	<1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	1543	1618	1499	1225
Magnesium	ppm	477	552	546	773
Zinc	ppm	1066	1170	1065	1154
Phosphorus	ppm	880	909	908	949
Barium	ppm	0	0	0	0
Boron	ppm	50	32	39	13

Depot: SAIBIR

Unique No: 10884411

Signed: Sean Felton

Report Date: 19 Feb 2024



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VOLVO GRAPHS

