



CONSTRUCTION EQUIPMENT

SWO-068635 EPIROC TMG21 SEDO165 - DIESEL ENGINE



Sample No: VCP441642
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWO-068635



SAMPLE INFORMATION

Sample Number	VCP441642	VCP428890	VCP432933	VCP411894
Sample Date	04 Jan 2024	14 Nov 2023	04 Oct 2023	09 Aug 2023
Machine Hours	4682	4407	4102	3817
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	13.2	13.2	13.7	13.0
Base Number (BN)	mg KOH/g	9.8	9.5	8.5	9.9
Oxidation (PA)	%	84	80	67	84

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)	%	56	54	55	58
Sulfation (PA)	%	61	60	53	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	4	4	6
Sodium	ppm	<1	0	2	0
Potassium	ppm	<1	2	0	<1



WEAR METALS

Iron	ppm	0	4	2	5
Copper	ppm	<1	<1	<1	<1
Lead	ppm	<1	0	0	<1
Tin	ppm	0	0	<1	<1
Aluminum	ppm	2	1	<1	2
Chromium	ppm	<1	0	0	<1
Molybdenum	ppm	39	44	49	40
Nickel	ppm	1	<1	0	0
Titanium	ppm	0	<1	0	0
Silver	ppm	<1	0	0	0
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1618	1499	1225	1650
Magnesium	ppm	552	546	773	473
Zinc	ppm	1170	1065	1154	1073
Phosphorus	ppm	909	908	949	888
Barium	ppm	0	0	0	2
Boron	ppm	32	39	13	37

Depot: SAIBIR
Unique No: 10830441
Signed: Don Baldrige
Report Date: 15 Jan 2024



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VOLVO GRAPHS

