



CONSTRUCTION EQUIPMENT

SWO-070487 EPIROC TMG21 SED0492 - DIESEL ENGINE



Sample No: VCP455405
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWO-070487



SAMPLE INFORMATION

Sample Number	VCP455405	VCP444476	VCP438022	VCP428776
Sample Date	17 Mar 2024	13 Feb 2024	03 Jan 2024	27 Nov 2023
Machine Hours	5262	5028	4772	4529
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	13.0	13.1	13.2	13.1
Base Number (BN)	mg KOH/g	9.2	6.7	9.2	9.3
Oxidation (PA)	%	82	41	85	82

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 %	%	0.2	0.1	0.2	0.2
Nitration (PA)	%	68	47	68	67
Sulfation (PA)	%	59	43	61	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	6	10	6
Sodium	ppm	0	2	0	2
Potassium	ppm	3	1	2	0



WEAR METALS

Iron	ppm	6	6	9	6
Copper	ppm	2	2	2	2
Lead	ppm	<1	0	<1	0
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	3	2	2	<1
Chromium	ppm	<1	<1	<1	0
Molybdenum	ppm	53	51	47	47
Nickel	ppm	0	0	<1	0
Titanium	ppm	<1	<1	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	<1	0
Vanadium	ppm	<1	0	0	<1



ADDITIVES

Calcium	ppm	1719	1543	1753	1715
Magnesium	ppm	515	506	532	525
Zinc	ppm	1092	1034	1092	1066
Phosphorus	ppm	924	854	849	931
Barium	ppm	2	0	8	0
Boron	ppm	38	36	34	30

Depot: SAIBIR
Unique No: 10938889
Signed: Don Baldrige
Report Date: 24 Mar 2024



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VOLVO GRAPHS

