



CONSTRUCTION EQUIPMENT

SWO-071782 VOLVO EC380EL 310021 - DIESEL ENGINE



Sample No: VCP453681
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWO-071782



SAMPLE INFORMATION

Sample Number	VCP453681	VCP428701	VCP428931	VCP407520
Sample Date	06 May 2024	21 Dec 2023	07 Sep 2023	18 May 2023
Machine Hours	11224	10648	10247	9662
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

WHITAKER CONTRACTING

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OIL CONDITION

Visc @ 100°C	cSt	12.5	12.5	12.4	12.8
Base Number (BN)	mg KOH/g	9.2	9.2	9.6	9.8
Oxidation (PA)	%	81	79	79	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 suitable for further service.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	62	63	56	67
Sulfation (PA)	%	60	58	59	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	7	6	8
Sodium	ppm	3	2	2	0
Potassium	ppm	0	0	0	1



WEAR METALS

Iron	ppm	3	3	4	7
Copper	ppm	2	1	<1	<1
Lead	ppm	0	<1	0	<1
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	<1	2	<1	<1
Chromium	ppm	0	0	0	<1
Molybdenum	ppm	43	43	42	45
Nickel	ppm	0	<1	0	2
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1754	1465	1870	1617
Magnesium	ppm	493	620	529	501
Zinc	ppm	1014	1154	1173	1074
Phosphorus	ppm	890	970	959	898
Barium	ppm	0	0	0	2
Boron	ppm	61	24	34	46

Depot: WHIGUN
Unique No: 11019667
Signed: Wes Davis
Report Date: 10 May 2024



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GRAPHS

