



CONSTRUCTION EQUIPMENT

SPM619900 VOLVO EC380E 314966 - DIESEL ENGINE



Sample No: VCP417605
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM619900



SAMPLE INFORMATION

Sample Number	VCP417605	VCP415258	VCP420642	VCP422175
Sample Date	12 Oct 2023	25 Aug 2023	19 Jul 2023	07 Jun 2023
Machine Hours	6338	5784	4982	4682
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

UNITED SCRAP

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OIL CONDITION

Visc @ 100°C	cSt	12.8	12.8	13.2	12.9
Base Number (BN)	mg KOH/g	8.3	7.6	8.1	7.0
Oxidation (PA)	%	88	85	80	95

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

Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	83	83	80	99
Sulfation (PA)	%	62	61	60	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	4	2	3
Sodium	ppm	5	2	0	4
Potassium	ppm	3	1	1	0



WEAR METALS

Iron	ppm	7	6	5	7
Copper	ppm	<1	<1	1	2
Lead	ppm	<1	0	<1	0
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	3	<1	0	<1
Chromium	ppm	<1	<1	0	0
Molybdenum	ppm	68	56	66	66
Nickel	ppm	<1	0	<1	0
Titanium	ppm	<1	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	<1	0	0	<1



ADDITIVES

Calcium	ppm	1385	1116	1167	1304
Magnesium	ppm	1094	928	977	1067
Zinc	ppm	1500	1208	1314	1353
Phosphorus	ppm	1269	994	1080	1096
Barium	ppm	0	2	2	0
Boron	ppm	15	6	0	7

Depot: UNICICIL
Unique No: 10712796
Signed: Wes Davis
Report Date: 27 Oct 2023



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GRAPHS

