



CONSTRUCTION EQUIPMENT

SPM580155 VOLVO EC380E 314966 - DIESEL ENGINE



Sample No: VCP420642
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM580155



SAMPLE INFORMATION

Sample Number	VCP420642	VCP422175	VCP387427	VCP383370
Sample Date	19 Jul 2023	07 Jun 2023	11 Apr 2023	28 Feb 2023
Machine Hours	4982	4682	3953	3393
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ATTENTION

UNITED SCRAP

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OIL CONDITION

Visc @ 100°C	cSt	13.2	12.9	13.2	12.3
Base Number (BN)	mg KOH/g	8.1	7.0	7.4	7.4
Oxidation (PA)	%	80	95	80	90

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)	%	80	99	80	93
Sulfation (PA)	%	60	65	55	64
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	2	3	3	4
Sodium	ppm	0	4	2	0
Potassium	ppm	1	0	0	1



WEAR METALS

Iron	ppm	5	7	5	7
Copper	ppm	1	2	1	2
Lead	ppm	<1	0	0	<1
Tin	ppm	<1	<1	0	<1
Aluminum	ppm	0	<1	<1	2
Chromium	ppm	0	0	<1	<1
Molybdenum	ppm	66	66	51	63
Nickel	ppm	<1	0	0	<1
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	1167	1304	900	1235
Magnesium	ppm	977	1067	742	968
Zinc	ppm	1314	1353	941	1303
Phosphorus	ppm	1080	1096	856	1088
Barium	ppm	2	0	0	0
Boron	ppm	0	7	9	4

Depot: UNICICIL
Unique No: 10586138
Signed: Wes Davis
Report Date: 03 Aug 2023



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GRAPHS

