



CONSTRUCTION EQUIPMENT

VOLVO G946B 578070 - DIESEL ENGINE



Sample No: VC238564
Oil Type: CENEX MAXTRON 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VC238564	VC146643	VCE03365	VCE03385
Sample Date	28 Jun 2023	27 Feb 2022	15 Aug 2018	14 Feb 2018
Machine Hours	6044	5059	2627	2370
Oil Hours	294	0	257	270
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	14.3	15.6	14.89	15.06
Base Number (BN)	mg KOH/g	10.0	11.3	---	---
Oxidation (PA)	%	57	64	52	48

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 %	%	1.2	0.8	1.1	0.8
Nitration (PA)	%	70	68	69	58
Sulfation (PA)	%	54	58	50	47
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	4	6	7
Sodium	ppm	4	<1	2	4
Potassium	ppm	3	2	22	12



WEAR METALS

Iron	ppm	29	17	20	26
Copper	ppm	2	1	2	2
Lead	ppm	0	<1	<1	0
Tin	ppm	<1	<1	0	0
Aluminum	ppm	6	5	12	10
Chromium	ppm	1	<1	1	1
Molybdenum	ppm	69	65	58	57
Nickel	ppm	0	0	<1	<1
Titanium	ppm	<1	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1197	1148	1034	1147
Magnesium	ppm	958	1054	1022	1037
Zinc	ppm	1331	1400	1106	1251
Phosphorus	ppm	1120	1210	899	1084
Barium	ppm	0	0	0	0
Boron	ppm	3	3	<1	<1

Depot: TOWWESWI
Unique No: 10575970
Signed: Wes Davis
Report Date: 28 Jul 2023



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GRAPHS

