



CONSTRUCTION EQUIPMENT

A10672 VOLVO EC180H 5446 - DIESEL ENGINE



Sample No: VCP411860
Oil Type: MOBIL 15W40
Job No: A10672



SAMPLE INFORMATION

Sample Number	VCP411860	VCP407461	VCP399142	VCP386046
Sample Date	10 Jul 2023	19 Apr 2023	03 Feb 2023	15 Nov 2022
Machine Hours	6010	5525	5041	4536
Oil Hours	500	500	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

COVANTA METAL MARKETING LLC
 500 MIDDLE DR
 FAIRLESS HILLS, PA
 US 19030
 Contact: J.P.

OIL CONDITION

Visc @ 100°C	cSt	12.9	12.5	12.8	13.0
Base Number (BN)	mg KOH/g	5.8	10.1	9.9	9.7
Oxidation (PA)	%	43	80	78	61

T:
F:

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	0.2	0.2
Nitration (PA)	%	62	55	58	65
Sulfation (PA)	%	47	60	60	55
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	4	4	2
Sodium	ppm	<1	1	2	0
Potassium	ppm	2	0	0	0

WEAR METALS

Iron	ppm	4	3	5	4
Copper	ppm	1	<1	4	2
Lead	ppm	<1	0	1	0
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	1	<1	<1	<1
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	15	35	38	33
Nickel	ppm	0	0	<1	0
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	2252	1542	1635	1693
Magnesium	ppm	161	459	490	462
Zinc	ppm	1173	1032	1048	1071
Phosphorus	ppm	962	821	874	937
Barium	ppm	0	0	0	0
Boron	ppm	9	57	53	9

Depot: COVFAI
Unique No: 10559746
Signed: Wes Davis
Report Date: 16 Jul 2023



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GRAPHS

