



CONSTRUCTION EQUIPMENT

VOLVO L180H 5290 - DIESEL ENGINE



Sample No: VCP307519
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP307519	VCP312990	VCP312988	VCP312682
Sample Date	29 Jan 2024	13 Nov 2023	18 Oct 2023	07 Sep 2023
Machine Hours	6771	6425	6268	5994
Oil Hours	346	157	274	282
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.8	13.1	13.0	12.3
Base Number (BN)	mg KOH/g	6.7	7.1	7.7	10.4
Oxidation (PA)	%	58	59	64	80

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 acceptable for the time in service.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	68	63	64	49
Sulfation (PA)	%	49	50	52	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	10	5	4	3
Sodium	ppm	5	1	4	<1
Potassium	ppm	3	<1	2	2



WEAR METALS

Iron	ppm	4	0	2	3
Copper	ppm	<1	<1	<1	<1
Lead	ppm	<1	0	0	0
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	6	2	4	2
Chromium	ppm	<1	0	<1	0
Molybdenum	ppm	188	118	109	40
Nickel	ppm	<1	0	<1	0
Titanium	ppm	<1	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	0	<1
Vanadium	ppm	<1	<1	<1	0



ADDITIVES

Calcium	ppm	1679	1276	1329	1635
Magnesium	ppm	937	687	649	470
Zinc	ppm	1180	904	915	896
Phosphorus	ppm	923	712	763	733
Barium	ppm	34	0	<1	0
Boron	ppm	194	137	109	58

Depot: SCHGRE
Unique No: 10898195
Signed: Don Baldrige
Report Date: 27 Feb 2024

VOLVO GRAPHS

