



CONSTRUCTION EQUIPMENT

2569-1 VOLVO L180H 5373 - DIESEL ENGINE



Sample No: VCP408990
Oil Type: CHEVRON DELO 400 MULTIGRADE 15W40
Job No: 2569-1



SAMPLE INFORMATION

Sample Number	VCP408990	VCP419483	VCP301764	VCP358614
Sample Date	21 Jul 2023	04 May 2023	07 Oct 2022	11 Jul 2022
Machine Hours	4474	4013	2694	0
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	N/A	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.1	13.2	12.5	12.8
Base Number (BN)	mg KOH/g	7.7	7.8	9.1	9.5
Oxidation (PA)	%	60	62	70	65

CONTAMINATION

Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	55	53	69	53
Sulfation (PA)	%	59	61	67	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	8	9	12	5
Sodium	ppm	<1	<1	1	1
Potassium	ppm	0	0	3	0

WEAR METALS

Iron	ppm	6	7	9	3
Copper	ppm	1	<1	3	4
Lead	ppm	<1	0	<1	<1
Tin	ppm	<1	<1	1	<1
Aluminum	ppm	3	5	7	4
Chromium	ppm	0	0	0	0
Molybdenum	ppm	85	90	122	115
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	<1	0	<1	0

ADDITIVES

Calcium	ppm	1444	1532	1536	1553
Magnesium	ppm	413	433	611	654
Zinc	ppm	1250	1277	858	826
Phosphorus	ppm	1022	1048	708	686
Barium	ppm	0	0	0	0
Boron	ppm	447	489	263	348

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.

Depot: VOLVO1023
Unique No: 10579820
Signed: Don Baldrige
Report Date: 03 Aug 2023



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VOLVO GRAPHS

