



CONSTRUCTION EQUIPMENT

SPM674531 VOLVO L180G 1930S - DIESEL ENGINE



Sample No: VCP431232
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SPM674531



SAMPLE INFORMATION

Sample Number	VCP431232	VCP417427	VCP405657	VCP401390
Sample Date	19 Feb 2024	08 Aug 2023	03 May 2023	18 Mar 2023
Machine Hours	22125	21063	20781	20570
Oil Hours	250	0	0	0
Oil Changed	Changed	Changed	Changed	Not Changd
Sample Status	NORMAL	ATTENTION	NORMAL	ABNORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.9	11.5	12.1	12.2
Base Number (BN)	mg KOH/g	10.0	8.9	8.8	9.9
Oxidation (PA)	%	71	78	74	67



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.3	0.3	0.2	0.3
Nitration (PA)	%	52	47	45	54
Sulfation (PA)	%	58	62	56	57
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	0.3	<1.0	<1.0
Silicon	ppm	7	11	12	32
Sodium	ppm	5	3	2	8
Potassium	ppm	0	3	2	11



WEAR METALS

Iron	ppm	5	15	8	16
Copper	ppm	3	6	4	14
Lead	ppm	0	0	0	<1
Tin	ppm	<1	<1	<1	2
Aluminum	ppm	2	2	2	3
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	37	35	38	46
Nickel	ppm	2	1	2	2
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	1	<1	2
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1660	1477	1730	1980
Magnesium	ppm	430	454	481	410
Zinc	ppm	963	1040	1054	1151
Phosphorus	ppm	881	893	920	942
Barium	ppm	0	0	0	0
Boron	ppm	63	59	63	97

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: COVJAM
Unique No: 10896436
Signed: Wes Davis
Report Date: 25 Feb 2024



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VOLVO GRAPHS

