



CONSTRUCTION EQUIPMENT

SPM581080 WM ROCKDAL VOLVO L120H 32310 - DIESEL ENGINE



Sample No: VCP409235
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SPM581080 WM ROCKDAL



SAMPLE INFORMATION

Sample Number	VCP409235	VCP421919	VCP404164	VCP387440
Sample Date	25 Jul 2023	21 Apr 2023	14 Feb 2023	05 Dec 2022
Machine Hours	14550	13965	13483	13288
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Not Changd	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

ALTA EQUIPMENT CO - ORLAND PARK
5000 INDUSTRIAL HWY
GARY, IN
US 46406
Contact: DAVE ENG
DAVE.ENG@ALTG.COM
T: (312)350-2560
F:



OIL CONDITION

Visc @ 100°C	cSt	15.3	14.8	14.3	14.3
Base Number (BN)	mg KOH/g	9.3	8.4	8.9	10.8
Oxidation (PA)	%	51	57	69	65

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	0.2	0.5	0.2
Nitration (PA)	%	38	56	71	61
Sulfation (PA)	%	47	48	65	57
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	5	5	6
Sodium	ppm	1	0	0	<1
Potassium	ppm	2	2	2	0



WEAR METALS

Iron	ppm	2	9	11	7
Copper	ppm	0	0	<1	<1
Lead	ppm	<1	0	1	<1
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	2	3	3	2
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	58	62	124	61
Nickel	ppm	<1	0	0	<1
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	<1



ADDITIVES

Calcium	ppm	1011	1117	1615	1105
Magnesium	ppm	955	1077	572	996
Zinc	ppm	1280	1427	983	1350
Phosphorus	ppm	1049	1099	805	1056
Barium	ppm	0	0	0	0
Boron	ppm	1	0	297	4

Depot: VOLVO8885
Unique No: 10601874
Signed: Don Baldrige
Report Date: 12 Aug 2023



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VOLVO GRAPHS

