



CONSTRUCTION EQUIPMENT

SPM539371 CONGRA VOLVO L120H 632390 - DIESEL ENGINE



Sample No: VCP410707
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SPM539371 CONGRA



SAMPLE INFORMATION

Sample Number	VCP410707	VCP396613	VCP374320	VCP379064
Sample Date	17 Apr 2023	02 Mar 2023	11 Jan 2023	19 Oct 2022
Machine Hours	15627	15076	14386	13764
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

ALTA CONSTRUCTION EQUIPMENT LLC
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OIL CONDITION

Visc @ 100°C	cSt	15.0	14.9	15.3	11.8
Base Number (BN)	mg KOH/g	9.1	9.6	9.4	9.3
Oxidation (PA)	%	60	62	60	71



CONTAMINATION

Soot %	%	0.3	0.3	0.3	0.2
Nitration (PA)	%	58	63	60	79
Sulfation (PA)	%	52	53	53	57
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	0	2	4	5
Sodium	ppm	2	0	0	3
Potassium	ppm	<1	1	<1	0

Diagnosis

No corrective action is recommended at this time. 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 condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	9	12	10	5
Copper	ppm	<1	<1	<1	1
Lead	ppm	0	<1	1	0
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	2	3	3	<1
Chromium	ppm	<1	<1	<1	2
Molybdenum	ppm	58	59	59	55
Nickel	ppm	<1	<1	<1	0
Titanium	ppm	0	0	0	0
Silver	ppm	1	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	<1



ADDITIVES

Calcium	ppm	1086	1081	1132	1323
Magnesium	ppm	1016	927	982	806
Zinc	ppm	1313	1227	1332	1251
Phosphorus	ppm	1080	1013	1014	1014
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	12

Depot: VOLVO5023
Unique No: 10444387
Signed: Doug Bogart
Report Date: 28 Apr 2023



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VOLVO GRAPHS

