

CONSTRUCTION EQUIPMENT

SW-25230-2 CASTLE VA VOLVO L220H 3119 - DIESEL ENGINE

Sample No: VCP442161

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

Job No: SW-25230-2 CASTLE VA

VOLVO	NFORMATION				
_	AFURMATION				
Sample Number		VCP442161	VCP345450	VCP340958	
Sample Date		10 Oct 2023	28 Dec 2021	08 Dec 2021	
Machine Hours		1915	1428	1405	
Oil Hours		500	23	500	
Oil Changed		Changed	Changed	Changed	
Sample Status		NORMAL	NORMAL	ABNORMAL	
OIL CONDI	TION				
Visc @ 100°C	cSt	12.9	■13.5	12.9	
Base Number (BN)	mg KOH/g	10.2	11.5	■9.4	
Oxidation (PA)	%	81	78	72	
CONTAMIN	NATION				
_					
Soot %	%	■ 0.3	0.1	0.3	
Nitration (PA)	%	59	43	65	
Sulfation (PA)	%	61	62	59	
Glycol	%	NEG	NEG	NEG	
Fuel	%	<1.0	<1.0	<1.0	
Silicon	ppm	6	1 1	△ 29	
Sodium	ppm	■3	2	3	
Potassium	ppm	0	0	3	
VOLVO					
WEAR ME	TALS				
Iron	ppm	9	7	□36	
Copper	ppm	■8	2	<u>▲</u> 16	
Lead	ppm	■0	□ <1	3	
Tin	ppm	■ <1	0	3	
Aluminum	ppm	■<1	1	7	
Chromium	ppm	0	1 <1	<1	
Molybdenum	ppm	■37	4 0	□32	
Nickel	ppm	■0	1 0	1	
Titanium	ppm	0	<1	<1	
Silver	ppm	0	0	<1	
Manganese	ppm	■<1	<1	1 2	
Vanadium	ppm	0	0	0	
variadium	ppiii	U	U	U	
VOLVO					
ADDITIVE:	7				
Calcium	ppm	1615	□1668	□ 1799	
Magnesium	ppm	426	495	■480	
Zinc	ppm	■969	■1146	■951	
DI I					

953

0

828

0



ARNOLD MACHINERY COMPANY

2975 WEST 2100 SOUTH
SALT LAKE CITY, UT
US 84119
Contact: TONY PAYAN
tpayan@arnoldmachinery.com
T: (801)972-4000

F: (801)975-9434

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:
 VOLVO8770

 Unique No:
 10698243

 Signed:
 Wes Davis

 Report Date:
 17 Oct 2023

814

0

61

ppm

ppm

ppm

Phosphorus

Barium

Boron



CONSTRUCTION EQUIPMENT





