



CONSTRUCTION EQUIPMENT

703413 VOLVO EC220 3 10686 - DIESEL ENGINE



Sample No: VCP449571
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 703413



SAMPLE INFORMATION

Sample Number	VCP449571	VCP421865	VCP401705	---
Sample Date	29 Apr 2024	04 Aug 2023	09 Jan 2023	---
Machine Hours	1494	967	477	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	ATTENTION	ATTENTION	ABNORMAL	---

BLUE GOOSE GROWERS
 16059 W ORANGE AVE
 FT PIERCE, FL
 US 34945
 Contact: SERVICE MANAGER

OIL CONDITION

Visc @ 100°C	cSt	11.7	11.6	10.0	---
Base Number (BN)	mg KOH/g	7.7	6.8	5.6	---
Oxidation (PA)	%	70	62	62	---

T: (772)461-3020
 F:

Diagnosis

Oil and filter change at the time of sampling has been noted. 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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.1	0.1	0.1	---
Nitration (PA)	%	63	64	81	---
Sulfation (PA)	%	56	55	53	---
Glycol	%	NEG	NEG	0.0	---
Fuel	%	<1.0	<1.0	1.3	---
Silicon	ppm	5	8	34	---
Sodium	ppm	3	3	4	---
Potassium	ppm	<1	<1	3	---

WEAR METALS

Iron	ppm	5	6	10	---
Copper	ppm	19	127	448	---
Lead	ppm	0	2	6	---
Tin	ppm	2	2	3	---
Aluminum	ppm	<1	1	2	---
Chromium	ppm	<1	0	<1	---
Molybdenum	ppm	51	68	89	---
Nickel	ppm	1	0	<1	---
Titanium	ppm	<1	0	0	---
Silver	ppm	0	0	<1	---
Manganese	ppm	<1	<1	3	---
Vanadium	ppm	<1	<1	0	---

ADDITIVES

Calcium	ppm	1417	1431	2287	---
Magnesium	ppm	695	986	16	---
Zinc	ppm	1112	1384	1220	---
Phosphorus	ppm	947	1150	986	---
Barium	ppm	0	0	0	---
Boron	ppm	9	2	32	---

Depot: BLUFOR
Unique No: 11008807
Signed: Jonathan Hester
Report Date: 07 May 2024



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VOLVO GRAPHS

