



CONSTRUCTION EQUIPMENT

41829 VOLVO A40G 352361 - DIESEL ENGINE



Sample No: VCP454618
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 41829



SAMPLE INFORMATION

Sample Number	VCP454618	VCP367558	VCP295562	---
Sample Date	12 Apr 2024	11 Nov 2022	01 Dec 2020	---
Machine Hours	3829	3140	899	---
Oil Hours	0	1000	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	ATTENTION	ATTENTION	NORMAL	---

BALFOUR BEATTY INFRASTRUCTURE INC
 6701 OLD PLANK RD
 PARKTON, NC
 US 28371
 Contact: Service Manager

OIL CONDITION

Visc @ 100°C	cSt	12.0	11.8	12.8	---
Base Number (BN)	mg KOH/g	10.7	12.9	---	---
Oxidation (PA)	%	82	81	61	---

T:
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	0.2	---
Nitration (PA)	%	58	80	63	---
Sulfation (PA)	%	60	61	54	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	0.8	<1.0	---
Silicon	ppm	6	5	5	---
Sodium	ppm	6	3	0	---
Potassium	ppm	0	<1	<1	---

WEAR METALS

Iron	ppm	8	8	9	---
Copper	ppm	7	9	14	---
Lead	ppm	0	<1	<1	---
Tin	ppm	1	<1	1	---
Aluminum	ppm	1	1	0	---
Chromium	ppm	0	<1	<1	---
Molybdenum	ppm	41	45	57	---
Nickel	ppm	<1	1	4	---
Titanium	ppm	0	0	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	<1	1	---
Vanadium	ppm	0	0	0	---

ADDITIVES

Calcium	ppm	1632	1699	1172	---
Magnesium	ppm	455	502	867	---
Zinc	ppm	994	1138	1147	---
Phosphorus	ppm	847	919	1053	---
Barium	ppm	0	0	0	---
Boron	ppm	54	49	7	---

Depot: BALPARNC
Unique No: 10980222
Signed: Don Baldrige
Report Date: 18 Apr 2024



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GRAPHS

