



CONSTRUCTION EQUIPMENT

VOLVO A40G 352787 - DIESEL ENGINE



Sample No: VCP435827
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP435827	VCP429777	VCP416194	VCP386098
Sample Date	09 Feb 2024	09 Nov 2023	28 Aug 2023	13 Sep 2022
Machine Hours	5200	4706	4246	2439
Oil Hours	0	0	500	500
Oil Changed	Changed	N/A	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

RIPA AND ASSOCIATES
 10149 FISHER AVENUE
 TAMPA, FL
 US 33619
 Contact: PM Services
 PMServices@ripaconstruction.com
 T:
 F:



OIL CONDITION

Visc @ 100°C	cSt	12.5	12.8	12.7	13.2
Base Number (BN)	mg KOH/g	9.1	9.5	9.0	11.2
Oxidation (PA)	%	76	79	86	88

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

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.2	0.3	0.3
Nitration (PA)	%	73	67	78	71
Sulfation (PA)	%	58	60	63	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	8	5	5
Sodium	ppm	2	11	2	1
Potassium	ppm	<1	3	0	1



WEAR METALS

Iron	ppm	4	28	7	5
Copper	ppm	2	1	4	1
Lead	ppm	<1	0	<1	<1
Tin	ppm	<1	0	1	<1
Aluminum	ppm	3	4	4	0
Chromium	ppm	0	<1	0	<1
Molybdenum	ppm	44	29	42	42
Nickel	ppm	0	0	1	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1675	2705	1768	1722
Magnesium	ppm	610	170	538	494
Zinc	ppm	1186	1354	1177	1123
Phosphorus	ppm	1056	1197	949	943
Barium	ppm	0	0	0	0
Boron	ppm	28	31	17	32

Depot: RIPTAM
Unique No: 11018434
Signed: Wes Davis
Report Date: 09 May 2024



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS

