



CONSTRUCTION EQUIPMENT

303241 VOLVO A35F 10350 - DIESEL ENGINE



Sample No: VCP400005
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 303241



SAMPLE INFORMATION

Sample Number	VCP400005	VCP310933	VCP268153	VCP240419
Sample Date	12 Jul 2023	18 Jun 2021	15 Jan 2020	05 Sep 2019
Machine Hours	12035	11179	10665	10039
Oil Hours	0	500	500	500
Oil Changed	N/A	Changed	Changed	Changed
Sample Status	NORMAL	ABNORMAL	NORMAL	NORMAL

RIPA AND ASSOCIATES
 10149 FISHER AVENUE
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OIL CONDITION

Visc @ 100°C	cSt	13.6	12.2	13.0	12.8
Base Number (BN)	mg KOH/g	8.5	---	---	---
Oxidation (PA)	%	58	82	74	82

CONTAMINATION

Water	%	---	0.109	---	---
Soot %	%	0.1	0.4	1	1.1
Nitration (PA)	%	58	75	74	70
Sulfation (PA)	%	52	66	61	64
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	0.3	0.8	<1.0	<1.0
Silicon	ppm	13	19	6	8
Sodium	ppm	2	3	3	3
Potassium	ppm	6	2	1	1

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. 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.

WEAR METALS

Iron	ppm	8	26	12	14
Copper	ppm	2	25	2	4
Lead	ppm	1	2	1	2
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	6	15	6	8
Chromium	ppm	<1	1	<1	<1
Molybdenum	ppm	61	40	28	40
Nickel	ppm	0	1	<1	<1
Titanium	ppm	<1	<1	0	<1
Silver	ppm	0	<1	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	1972	1582	1532	1679
Magnesium	ppm	193	544	555	500
Zinc	ppm	1158	1014	781	873
Phosphorus	ppm	961	930	726	735
Barium	ppm	0	0	0	0
Boron	ppm	86	60	23	29

Depot: RIPTAM
Unique No: 10552941
Signed: Jonathan Hester
Report Date: 17 Jul 2023



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GRAPHS

