



CONSTRUCTION EQUIPMENT

VOLVO A30G 752489 - DIESEL ENGINE



Sample No: VCP445580
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP445580	VCP454417	VCP407850	VCP424503
Sample Date	16 Apr 2024	12 Jan 2024	16 Jun 2023	06 Jun 2023
Machine Hours	6465	5963	4995	10602
Oil Hours	0	0	500	500
Oil Changed	Changed	N/A	Changed	Changed
Sample Status	NORMAL	ATTENTION	NORMAL	ABNORMAL

RIPA AND ASSOCIATES
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 Contact: PM Services
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 T:
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OIL CONDITION

Visc @ 100°C	cSt	12.6	12.4	12.8	11.0
Base Number (BN)	mg KOH/g	9.7	9.4	9.3	9.5
Oxidation (PA)	%	82	77	82	73

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 %	%	0.3	0.3	0.4	0.3
Nitration (PA)	%	68	67	78	65
Sulfation (PA)	%	62	60	62	58
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	0.4	<1.0	4.7
Silicon	ppm	4	5	3	3
Sodium	ppm	0	0	2	1
Potassium	ppm	<1	2	2	0



WEAR METALS

Iron	ppm	7	7	5	4
Copper	ppm	<1	<1	<1	<1
Lead	ppm	<1	0	0	0
Tin	ppm	<1	0	0	<1
Aluminum	ppm	2	2	6	<1
Chromium	ppm	<1	<1	0	0
Molybdenum	ppm	41	45	52	37
Nickel	ppm	<1	0	0	0
Titanium	ppm	<1	0	7	6
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	0	<1
Vanadium	ppm	0	0	0	<1



ADDITIVES

Calcium	ppm	1663	1796	2090	1551
Magnesium	ppm	480	447	637	414
Zinc	ppm	1104	1167	1376	1008
Phosphorus	ppm	869	888	1168	836
Barium	ppm	0	5	12	0
Boron	ppm	40	39	35	37

Depot: RIPTAM
Unique No: 11077117
Signed: Don Baldrige
Report Date: 17 Jun 2024

VOLVO **GRAPHS**

