



CONSTRUCTION EQUIPMENT

SW0064011 VOLVO A45G 352704 - DIESEL ENGINE



Sample No: VCP389125
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SWO064011



SAMPLE INFORMATION

Sample Number	VCP389125	VCP383498	VCP406413	VCP383840
Sample Date	17 Jul 2023	27 Apr 2023	08 Feb 2023	27 Oct 2022
Machine Hours	4405	3920	3450	2979
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.7	12.9	12.8	12.8
Base Number (BN)	mg KOH/g	9.9	8.8	9.2	8.5
Oxidation (PA)	%	80	75	78	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 acceptable for the time in service.



CONTAMINATION

Soot %	%	0.2	0.2	0.3	0.4
Nitration (PA)	%	57	54	66	90
Sulfation (PA)	%	61	57	63	71
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	5	6	5
Sodium	ppm	2	2	2	2
Potassium	ppm	0	<1	0	0



WEAR METALS

Iron	ppm	5	5	10	15
Copper	ppm	8	14	78	320
Lead	ppm	<1	0	2	<1
Tin	ppm	<1	0	<1	1
Aluminum	ppm	0	<1	1	2
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	40	38	41	39
Nickel	ppm	<1	0	<1	<1
Titanium	ppm	<1	<1	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1740	1575	1575	1574
Magnesium	ppm	518	487	493	580
Zinc	ppm	1117	1072	993	971
Phosphorus	ppm	929	870	802	811
Barium	ppm	0	0	0	0
Boron	ppm	50	53	42	40

Depot: SAIBIR
Unique No: 10564314
Signed: Don Baldrige
Report Date: 21 Jul 2023



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VOLVO GRAPHS

