



CONSTRUCTION EQUIPMENT

SWO-064855 VOLVO A45G 352915 - DIESEL ENGINE



Sample No: VCP413514
Oil Type: DIESEL ENGINE OIL SAE 40
Job No: SWO-064855



SAMPLE INFORMATION

Sample Number	VCP413514	VCP414246	VCP397704	VCP365955
Sample Date	15 Aug 2023	26 May 2023	19 Jan 2023	28 Sep 2022
Machine Hours	2344	1912	1420	978
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

SAIIA CONSTRUCTION LLC

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OIL CONDITION

Visc @ 100°C	cSt	12.6	12.8	12.8	12.6
Base Number (BN)	mg KOH/g	10.2	10.0	10.7	11.3
Oxidation (PA)	%	79	80	77	82

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

Soot %	%	0.4	0.4	0.3	0.2
Nitration (PA)	%	57	59	60	59
Sulfation (PA)	%	61	62	60	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	7	7	11
Sodium	ppm	3	1	2	3
Potassium	ppm	0	0	0	0



WEAR METALS

Iron	ppm	10	12	17	11
Copper	ppm	1	3	5	19
Lead	ppm	<1	0	2	4
Tin	ppm	<1	2	2	2
Aluminum	ppm	2	0	<1	<1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	41	42	45	42
Nickel	ppm	<1	<1	3	1
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	1
Vanadium	ppm	<1	0	0	2



ADDITIVES

Calcium	ppm	1763	1777	1969	1635
Magnesium	ppm	507	534	564	429
Zinc	ppm	1107	1154	1253	1033
Phosphorus	ppm	938	957	995	918
Barium	ppm	0	0	0	0
Boron	ppm	48	59	55	49

Depot: SAIBIR

Unique No: 10617095

Signed: Don Baldrige

Report Date: 24 Aug 2023



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GRAPHS

