

CONSTRUCTION EQUIPMENT 646466 VOLVO A30G 740270 - DIESEL ENGINE



Sample No: VCP440620

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

Job No: 646466

SAMPLE	E INFORMATION				
Sample Number		VCP440620	VCP385814	VCP386752	VCP378457
Sample Date		13 Dec 2023	23 Nov 2022	09 Sep 2022	01 Jun 2022
Machine Hours		11945	10327	9917	9479
Oil Hours		500	500	500	500
Oil Changed		Changed	Changed	Changed	Changed
Sample Status		ABNORMAL	ATTENTION	ATTENTION	ATTENTION
VOLVO	DITION				
OIL CON					
Visc @ 100°C	cSt	<u> </u>	1 2.2	▲ 12.3	▲ 12.2
Base Number (BN		7.4	■10.1	□ 10.6	■9.4
Oxidation (PA)	%	77	81	83	80
VOLVO					
	MINATION				
Water	%	NEG	NEG	NEG	NEG
Soot %	%	■ 0.6	■0.4	■ 0.4	□0.4
Nitration (PA)	%	80	70	71	70
Sulfation (PA)	%	58	65	64	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<u> </u>	<1.0	<1.0	<1.0
Silicon	ppm	5	4	1 0	4
Sodium	ppm	2	_2	3	4
Potassium	ppm	0	0	< 1	■3
WEAR N	AETALS .				
Iron	ppm	11	<u> </u>	5	6
Copper	ppm	<u>2</u>	<1	■<1	<1
Lead	ppm	2	1 <1	1 0	1 <1
Tin	ppm	<1	<1	= <1	= <1
Aluminum	ppm	<u> </u>	1	0	2
Chromium	ppm	<1	<u> </u>	= <1	<u> </u>
Molybdenum	ppm	43	■ 36	■36	4 4
Nickel	ppm	■ 0	0	0	- <1
Titanium	ppm	<1	1 1	7	<1
Silver	ppm	■ 0	0	■0	- <1
Manganese	ppm	■ <1	< 1	 <1	 < 1
Vanadium	ppm	0	0	0	<1
ADDITIV	VES				
Calcium	ppm	1688	1613	1 508	□ 1623
Magnesium	ррт	386	527	490	460
	PPIII		D4465		

1165

1909

0

1058

0

1129

926

0

27



RIPA AND ASSOCIATES

10149 FISHER AVENUE TAMPA, FL US 33619 Contact: PM Services PMServices@ripaconstruction.com

F:

Diagnosis

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Light fuel dilution occurring. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

Depot:RIPTAMUnique No:10845926Signed:Sean FeltonReport Date:26 Jan 2024

988

852

0

20

ppm

ppm

ppm

ppm

Zinc

Barium

Boron

Phosphorus



CONSTRUCTION EQUIPMENT





