



CONSTRUCTION EQUIPMENT

SWA276465 RANGO VOLVO A45G 352403 - DIESEL ENGINE



Sample No: VCP407623
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SWA276465 RANGO



SAMPLE INFORMATION

Sample Number	VCP407623	VCP401402	VCP387351	VCP384574
Sample Date	02 Jun 2023	18 Apr 2023	07 Feb 2023	11 Nov 2022
Machine Hours	6060	5622	5055	4478
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

ALTA CONSTRUCTION EQUIPMENT
 613 E STEVENSON RD
 OTTAWA, IL
 US 61350
 Contact: KEVIN SKRTICH
 KEVIN.SKRTICH@ALTAEQUIPMENT.COM
 T:
 F:

OIL CONDITION

Visc @ 100°C	cSt	13.6	13.1	13.3	12.7
Base Number (BN)	mg KOH/g	9.2	7.6	8.6	9.9
Oxidation (PA)	%	53	52	55	59

CONTAMINATION

Soot %	%	0.4	0.6	0.6	0.7
Nitration (PA)	%	52	58	63	65
Sulfation (PA)	%	49	47	52	58
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	4	4	5
Sodium	ppm	0	0	2	2
Potassium	ppm	2	<1	<1	<1

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.

WEAR METALS

Iron	ppm	8	13	12	11
Copper	ppm	2	4	14	20
Lead	ppm	<1	0	<1	2
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	1	1	2	2
Chromium	ppm	<1	1	<1	<1
Molybdenum	ppm	60	56	60	58
Nickel	ppm	1	4	3	3
Titanium	ppm	0	0	0	0
Silver	ppm	<1	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1053	1038	1096	1198
Magnesium	ppm	913	975	987	913
Zinc	ppm	1207	1279	1324	1291
Phosphorus	ppm	1015	1036	1048	1002
Barium	ppm	0	0	0	0
Boron	ppm	0	<1	0	3

Depot: VOLVO5055
Unique No: 10589099
Signed: Wes Davis
Report Date: 08 Aug 2023



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GRAPHS

