CONSTRUCTION EQUIPMENT

SW-30086 SEG 1 RANGO VOLVO R100E 121020 - HYDRAULIC SY

VCP422760 Sample No: **Oil Type:** {unknown} Job No: SW-30086 SEG 1 RANGO

TOTATO

VOLVO				
	FORMATION			
Sample Number		VCP422760	 	
Sample Date		20 Feb 2024	 	
Machine Hours		4057	 	
Oil Hours		0	 	
Oil Changed		Not Changd	 	
Sample Status		SEVERE	 	
VOLVO				
OIL CONDI				
Visc @ 40°C	cSt	43.6	 	
Acid Number (AN)	mg KOH/g	0.54	 	
CONTAMIN				
				-
Water	%	NEG	 	
Particles >4µm		65472	 	
Particles >6µm		A 8777	 	
Particles >14µm		A 348	 	
ISO 4406:1999 (c)		23/20/16	 	
Silicon	ppm	4 2	 	
Sodium	ppm	0	 	
Potassium	ppm	0	 	

VEAD METALS

WEAR M	ICIALS			
Iron	ppm	8	 	
Copper	ppm	A 358	 	
Lead	ppm	□ <1	 	
Tin	ppm	0	 	
Aluminum	ppm	5	 	
Chromium	ppm		 	
Molybdenum	ppm	0	 	
Nickel	ppm	8	 	
Titanium	ppm	<1	 	
Silver	ppm	0	 	
Manganese	ppm	<1	 	
Vanadium	ppm	0	 	

Calcium	ppm	1818				
Magnesium	ppm	9				
Zinc	ppm	648				
Phosphorus	ppm	581				
Barium	ppm	0				
Boron	ppm	0				



2975 WEST 2100 SOUTH SALT LAKE CITY, UT US 84119 Contact: TJ LARK tlark@arnoldmachinery.com T: (801)972-4000 F: (801)975-9434

Diagnosis

We recommend that you drain the oil and perform a filter service on this component if not already done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. The copper level is severe. There is a high amount of particulates present in the oil. Elemental level of silicon (Si) above normal indicating ingress of seal material. The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: VOLV08770 Unique No: 10899787 Signed: Jonathan Hester Report Date: 29 Feb 2024

Contact/Location: TJ LARK - VOLVO8770

CONSTRUCTION EQUIPMENT



GRAPHS

VOLVO

Ferrous Alloys Particle Count 10 - 491,520 -26 iron 9 chromium 245,760 -25 nickel 8 122,880 -24 61,440 -23 ß mda E, 30,720 -22 15,360 -21 2 7,680 -20 Abnormal 3,840 -19 0. 1,920 -18 🛛 Feb20/24 umber of particles (per 1 ml) Feb20/24 4406:1999 Cleanlines 960 17 Non-ferrous Metals 480 16 400 15 copper 240 M lead 350 14 00 120 300 -13 60. 250 30 -12 튭 200 15 11 150 8 10 100 4 9 50 2 -8 0 Feb20/24 Feb20/24 0, 21µ 14µ 38µ Viscosity @ 40°C Acid Number 52 0.55 Abnormal 0.50 50 0.45 48 (^B/HOX 0.35 (0°0) tso 44 Ē 0.30 Vin Number Vicio Acid 42 0.10 40. Abnormal 0.05 0.00 38 Feb20/24. Feb20/24 Feb20/24 Feb20/24

Report Id: VOLVO8770 [WUSCAR] 06101557 (Generated: 02/29/2024 10:45:13) Rev: 1

Contact/Location: TJ LARK - VOLVO8770