



CONSTRUCTION EQUIPMENT

447 SAKAI 50755 - HYDRAULIC SYSTEM



Sample No: VCP408576
Oil Type: SHELL TELLUS S2 MX 46
Job No: 447



SAMPLE INFORMATION

Sample Number	VCP408576	---	---	---
Sample Date	20 Oct 2023	---	---	---
Machine Hours	6133	---	---	---
Oil Hours	1000	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	ABNORMAL	---	---	---

TOTAL DEVELOPMENT SOLUTIONS LLC
 7805 PROGRESS CT
 GAINESVILLE, VA
 US 20155
 Contact: JOE SEALE
 jseale@totaldevelopmentsolutions.com
 T: (703)222-0497
 F: (703)753-4586

OIL CONDITION

Visc @ 40°C	cSt	■ 46.4	---	---	---
Acid Number (AN)	mg KOH/g	■ 0.44	---	---	---

CONTAMINATION

Particles >4µm		▲ 48349	---	---	---
Particles >6µm		▲ 2145	---	---	---
Particles >14µm		■ 39	---	---	---
ISO 4406:1999 (c)		23/18/12	---	---	---
Silicon	ppm	■ 2	---	---	---
Sodium	ppm	■ 3	---	---	---
Potassium	ppm	■ 0	---	---	---

Diagnosis

We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

WEAR METALS

Iron	ppm	■ 20	---	---	---
Copper	ppm	■ 3	---	---	---
Lead	ppm	■ 0	---	---	---
Tin	ppm	■ 0	---	---	---
Aluminum	ppm	■ 0	---	---	---
Chromium	ppm	■ 0	---	---	---
Molybdenum	ppm	■ 2	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	< 1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	■ 0	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	■ 134	---	---	---
Magnesium	ppm	■ 19	---	---	---
Zinc	ppm	■ 256	---	---	---
Phosphorus	ppm	■ 200	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 1	---	---	---

Depot: TOTGAI
Unique No: 10714774
Signed: Don Baldrige
Report Date: 31 Oct 2023

VOLVO **GRAPHS**

