



CONSTRUCTION EQUIPMENT

SWO-067841 EPIROC TMG21 SED0223 - HYDRAULIC SYSTEM



Sample No: VCP445715
Oil Type: SHELL TELLUS S2 VX 46
Job No: SWO-067841



SAMPLE INFORMATION

Sample Number	VCP445715	VCP433638	VCP425886	VCP408679
Sample Date	27 Nov 2023	29 Aug 2023	05 Jul 2023	17 May 2023
Machine Hours	3804	3384	3133	2865
Oil Hours	0	0	0	0
Oil Changed	Changed	Not Chngd	Not Chngd	Changed
Sample Status	ATTENTION	NORMAL	NORMAL	ATTENTION

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OIL CONDITION

Visc @ 40°C	cSt	44.3	44.7	45.2	45.0
Acid Number (AN)	mg KOH/g	0.49	0.48	0.46	0.41

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		▲ 8429	176	1905	4464
Particles >6µm		1136	39	547	▲ 1345
Particles >14µm		38	7	40	105
ISO 4406:1999 (c)		20/17/12	15/12/10	18/16/12	19/18/14
Silicon	ppm	4	3	3	4
Sodium	ppm	0	0	0	<1
Potassium	ppm	2	<1	<1	<1

Diagnosis
 The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate 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	4	3	3	3
Copper	ppm	2	2	2	2
Lead	ppm	0	0	<1	<1
Tin	ppm	0	0	0	<1
Aluminum	ppm	1	4	2	2
Chromium	ppm	0	0	0	0
Molybdenum	ppm	<1	0	<1	<1
Nickel	ppm	0	0	0	<1
Titanium	ppm	<1	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	0	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	102	100	97	71
Magnesium	ppm	9	6	4	6
Zinc	ppm	472	499	482	513
Phosphorus	ppm	342	367	342	363
Barium	ppm	0	0	0	0
Boron	ppm	<1	0	0	0

Depot: SAIBIR
Unique No: 10766016
Signed: Don Baldrige
Report Date: 04 Dec 2023

VOLVO **GRAPHS**

