



CONSTRUCTION EQUIPMENT

SPM621713 BL DUKE SENNEBOGEN 835M 835.0.2811 - HYDRAULIC SYSTEM



Sample No: VCP425288
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SPM621713 BL DUKE



SAMPLE INFORMATION

Sample Number	VCP425288	VCP410626	VCP406060	VCP387453
Sample Date	18 Oct 2023	04 May 2023	01 Mar 2023	20 Dec 2022
Machine Hours	5187	4011	3580	3120
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Changed	Not Chngd	Changed
Sample Status	ABNORMAL	ABNORMAL	ATTENTION	ABNORMAL

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OIL CONDITION

Visc @ 40°C	cSt	▲ 36.6	▲ 34.1	▲ 34.0	▲ 34.4
Acid Number (AN)	mg KOH/g	■ 0.81	■ 0.98	■ 0.87	■ 0.95



CONTAMINATION

Particles >4µm		▲ 159871	---	■ 1133	▲ 43980
Particles >6µm		▲ 58407	---	■ 276	▲ 13137
Particles >14µm		▲ 2028	---	■ 19	▲ 1231
ISO 4406:1999 (c)		24/23/18	---	17/15/11	23/21/17
Silicon	ppm	■ <1	■ 1	■ 2	■ 3
Sodium	ppm	■ 4	■ 4	■ 4	■ 6
Potassium	ppm	■ <1	■ 0	■ 0	■ 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 particulates present in the oil. Viscosity of sample indicates oil is within ISO 32 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.



WEAR METALS

Iron	ppm	■ <1	■ 5	■ 4	■ 4
Copper	ppm	■ 1	■ 1	■ 2	■ 1
Lead	ppm	■ <1	■ 0	■ <1	■ <1
Tin	ppm	■ 0	■ 0	■ 0	■ 0
Aluminum	ppm	■ 0	■ 0	■ <1	■ <1
Chromium	ppm	■ <1	■ <1	■ <1	■ 0
Molybdenum	ppm	■ 0	■ 0	■ <1	■ 0
Nickel	ppm	■ 0	■ 0	■ 0	■ 0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	■ 0	■ 0	■ <1	■ <1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	■ 493	1083	1025	1108
Magnesium	ppm	■ 3	■ 4	■ 4	■ 4
Zinc	ppm	■ 493	■ 613	■ 600	■ 528
Phosphorus	ppm	■ 402	■ 520	■ 508	■ 471
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 0	■ 0	■ 0	■ 0

Depot: VOLVO8885
Unique No: 10737962
Signed: Don Baldrige
Report Date: 14 Nov 2023

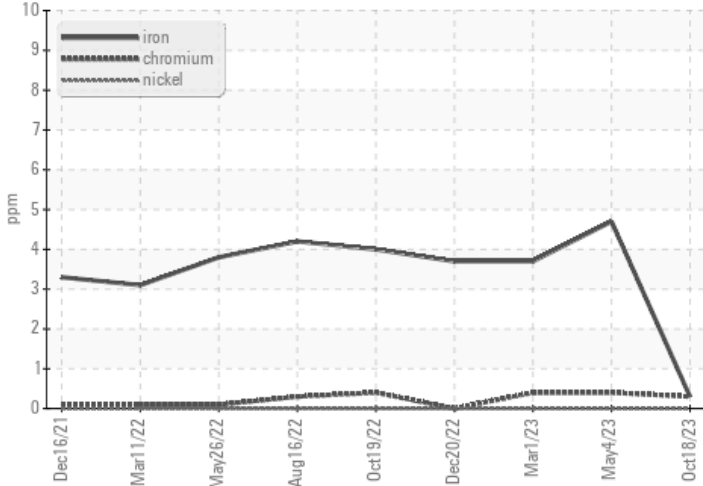


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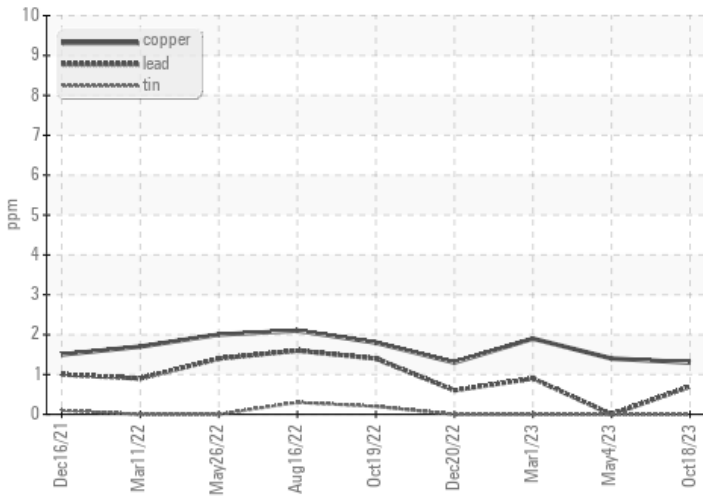


GRAPHS

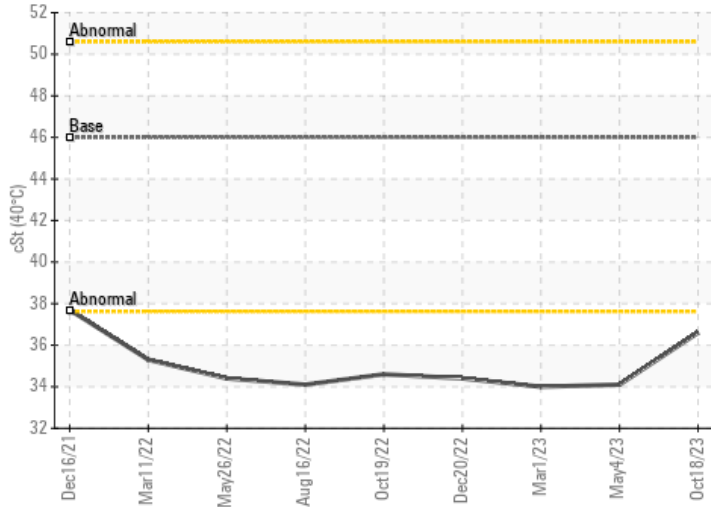
Ferrous Alloys



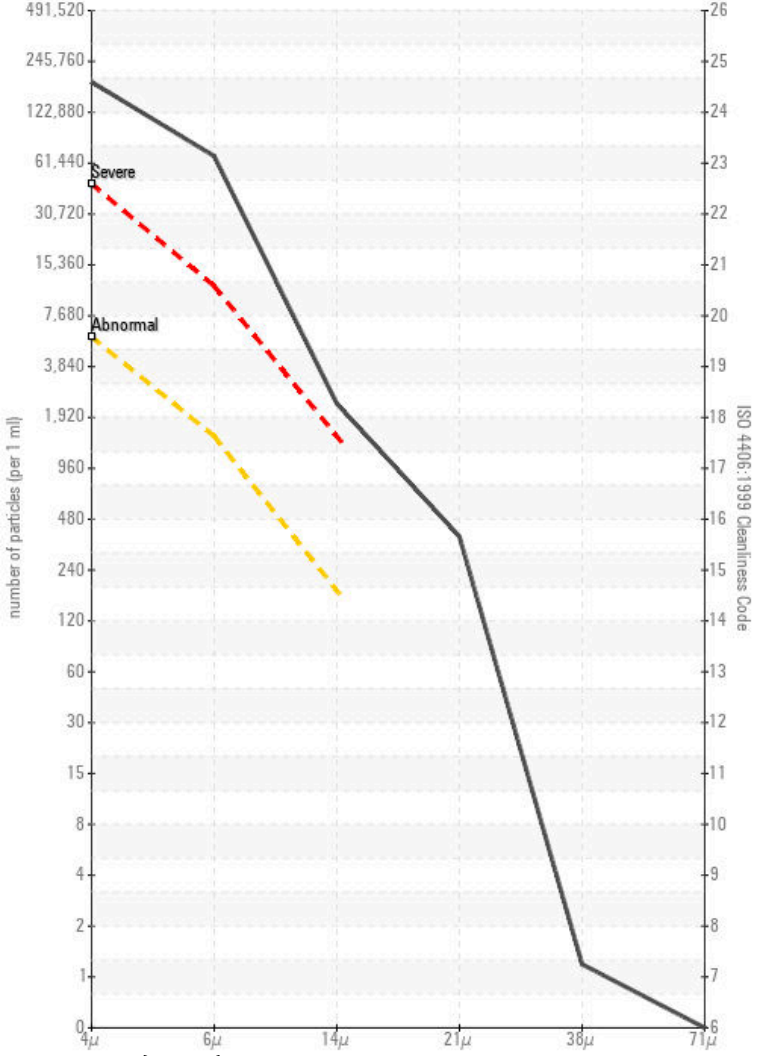
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

