



CONSTRUCTION EQUIPMENT

SPM703242 BL DUKE SENNOBOGEN 835M 835.0.2625 - HYDRAULIC SYSTEM



Sample No: VCP447026
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SPM703242 BL DUKE



SAMPLE INFORMATION

Sample Number	VCP447026	VCP425315	VCP415215	VCP397577
Sample Date	01 May 2024	18 Oct 2023	12 Sep 2023	17 Feb 2023
Machine Hours	6131	4991	4620	3163
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Not Chngd
Sample Status	NORMAL	ATTENTION	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	39.3	39.2	38.2	38.1
Acid Number (AN)	mg KOH/g	0.96	0.92	0.83	0.80



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		1967	9804	4610	3199
Particles >6µm		208	2368	1145	443
Particles >14µm		9	102	77	30
ISO 4406:1999 (c)		18/15/10	20/18/14	19/17/13	19/16/12
Silicon	ppm	3	2	2	2
Sodium	ppm	2	5	6	4
Potassium	ppm	2	1	<1	0

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



WEAR METALS

Iron	ppm	10	7	10	8
Copper	ppm	3	3	3	2
Lead	ppm	1	1	1	<1
Tin	ppm	0	<1	0	0
Aluminum	ppm	2	<1	<1	<1
Chromium	ppm	3	2	2	<1
Molybdenum	ppm	2	0	<1	<1
Nickel	ppm	0	<1	0	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1373	1192	1339	1116
Magnesium	ppm	19	18	22	11
Zinc	ppm	758	683	719	528
Phosphorus	ppm	666	546	571	467
Barium	ppm	<1	0	0	0
Boron	ppm	6	6	9	8

Depot: VOLVO8885
Unique No: 11017148
Signed: Wes Davis
Report Date: 08 May 2024

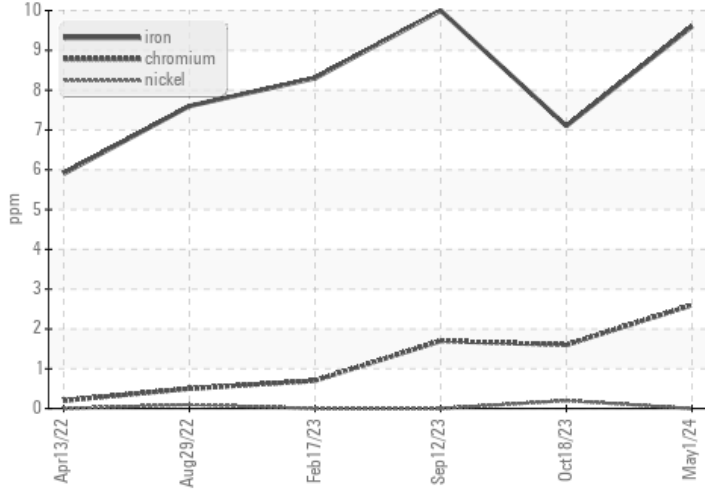


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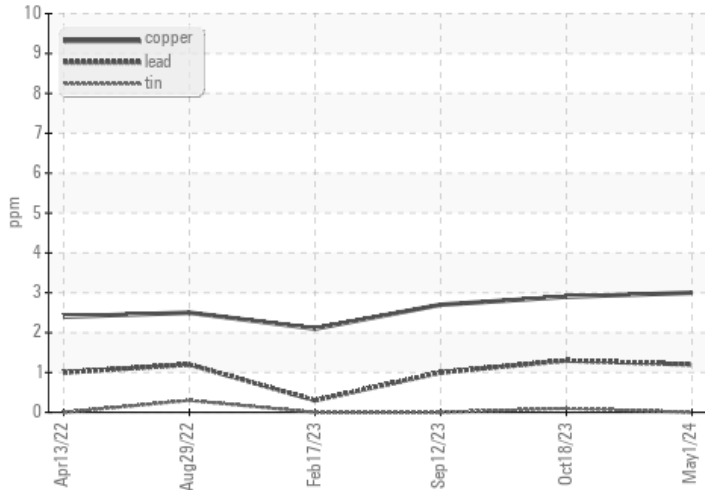


GRAPHS

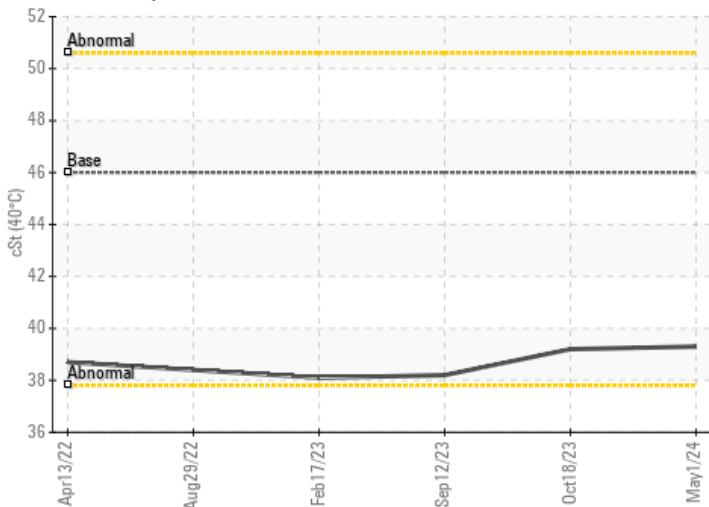
Ferrous Alloys



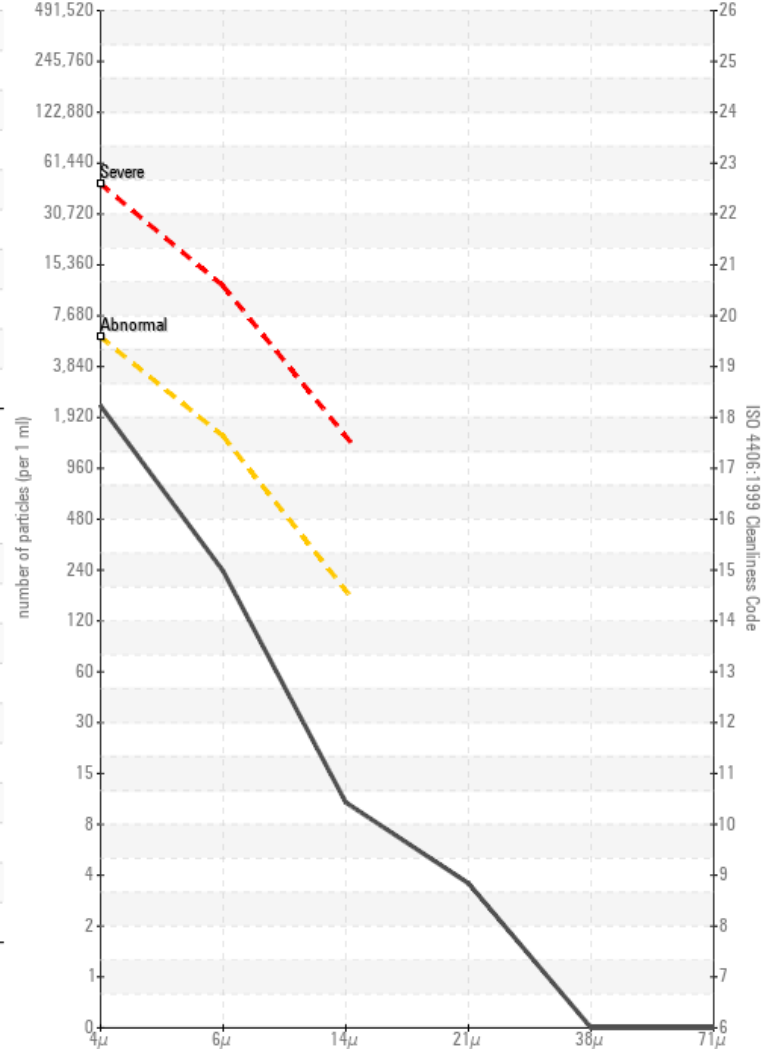
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

