



CONSTRUCTION EQUIPMENT

X48143 KOBELCO SK350LC-10 605072 - HYDRAULIC SYSTEM



Sample No: VCP454677
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: X48143



SAMPLE INFORMATION

Sample Number	VCP454677	VCP450953	VCP371278	VCP371156
Sample Date	05 Jun 2024	17 May 2024	18 Jan 2023	04 Jan 2023
Machine Hours	4387	4381	0	3657
Oil Hours	0	0	0	0
Oil Changed	N/A	Not Changd	N/A	Not Changd
Sample Status	SEVERE	SEVERE	ABNORMAL	ABNORMAL

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OIL CONDITION

Visc @ 40°C	cSt	50.0	42.5	45.3	44.7
Acid Number (AN)	mg KOH/g	0.37	0.38	0.32	0.33



CONTAMINATION

Water	%	NEG	NEG	▲ 0.309	NEG
Particles >4µm		▲ 85258	▲ 115536	■ 1546	▲ 67683
Particles >6µm		▲ 7668	▲ 21659	■ 842	▲ 21972
Particles >14µm		■ 113	■ 122	■ 143	▲ 1562
ISO 4406:1999 (c)		24/20/14	24/22/14	18/17/14	23/22/18
Silicon	ppm	■ 2	■ 3	■ 0	■ 1
Sodium	ppm	■ 2	■ <1	■ 0	■ 0
Potassium	ppm	■ 3	■ 0	■ 2	■ <1

Diagnosis

Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation. 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 oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



WEAR METALS

Iron	ppm	■ 2	■ 9	■ 2	■ 6
Copper	ppm	■ 2	■ 4	■ 2	■ 6
Lead	ppm	■ 0	■ <1	■ 0	■ <1
Tin	ppm	■ <1	■ <1	■ 0	■ 0
Aluminum	ppm	■ <1	■ <1	■ 0	■ <1
Chromium	ppm	■ 0	■ 0	■ 0	■ <1
Molybdenum	ppm	■ 0	■ 3	0	■ <1
Nickel	ppm	■ <1	■ 0	■ 0	■ 0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	■ <1	■ <1	0	■ 0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	■ 65	■ 70	33	■ 26
Magnesium	ppm	■ 3	■ 0	9	■ 6
Zinc	ppm	■ 434	■ 358	278	■ 266
Phosphorus	ppm	■ 348	■ 322	259	■ 278
Barium	ppm	■ <1	■ 0	0	■ 1
Boron	ppm	■ 0	■ 0	0	■ 0

Depot: VOLV00129
Unique No: 11071982
Signed: Wes Davis
Report Date: 12 Jun 2024

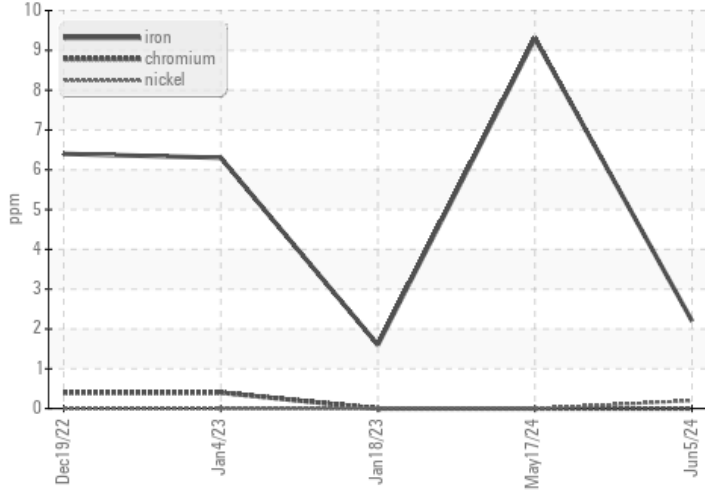


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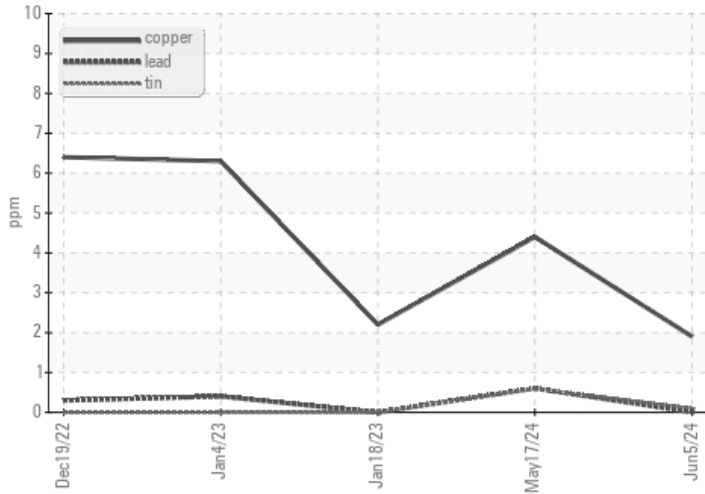


GRAPHS

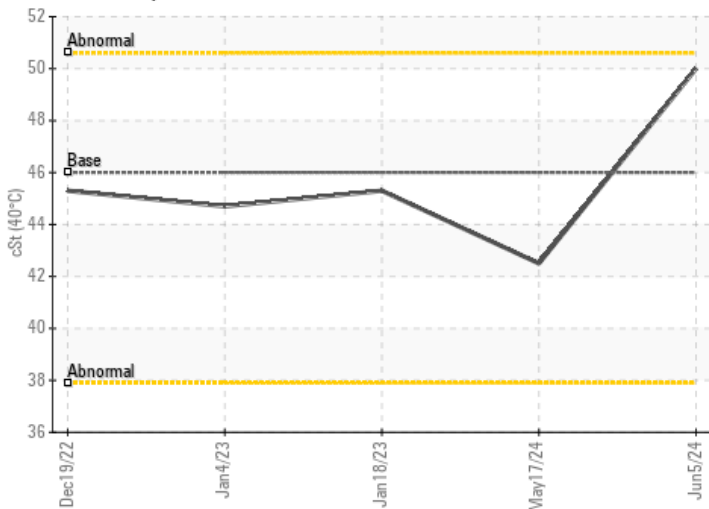
Ferrous Alloys



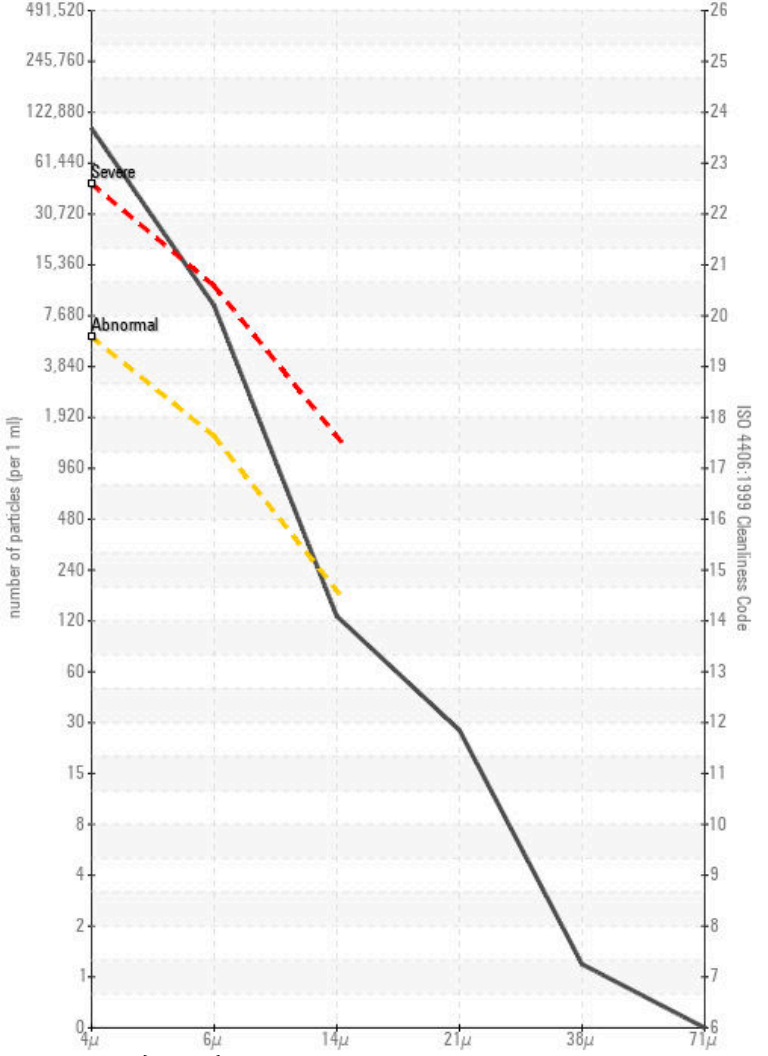
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

