



CONSTRUCTION EQUIPMENT

X59174 SOUTHERN RECY VOLVO EC250EL 314100 - HYDRAULIC SYSTEM



Sample No: VCP440823
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: X59174 SOUTHERN RECY



SAMPLE INFORMATION

Sample Number	VCP440823	VCP408061	VCP379171	VCP320049
Sample Date	01 Feb 2024	15 Jun 2023	30 Aug 2022	11 Aug 2021
Machine Hours	3516	2382	1707	1192
Oil Hours	3516	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	41.7	47.5	43.4	45.2
Acid Number (AN)	mg KOH/g	0.45	0.39	0.49	0.518



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		1108	1268	29059	20565
Particles >6µm		326	320	5319	2605
Particles >14µm		33	26	477	94
ISO 4406:1999 (c)		17/16/12	17/15/12	22/20/16	22/19/14
Silicon	ppm	<1	2	3	2
Sodium	ppm	<1	<1	0	0
Potassium	ppm	0	<1	<1	<1

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	0	0	2	1
Copper	ppm	24	0	19	19
Lead	ppm	0	<1	<1	<1
Tin	ppm	<1	0	<1	0
Aluminum	ppm	0	<1	<1	0
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	0	0	<1	0
Nickel	ppm	0	0	0	0
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	<1	2
Manganese	ppm	0	<1	0	<1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	25	52	82	68
Magnesium	ppm	0	<1	<1	<1
Zinc	ppm	426	457	460	484
Phosphorus	ppm	353	351	360	371
Barium	ppm	0	0	0	0
Boron	ppm	0	0	1	0

Depot: SCOSAI
Unique No: 10869906
Signed: Wes Davis
Report Date: 08 Feb 2024

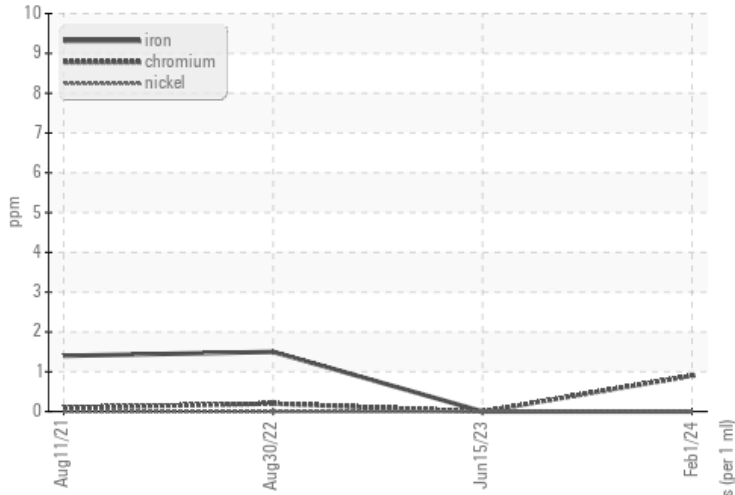


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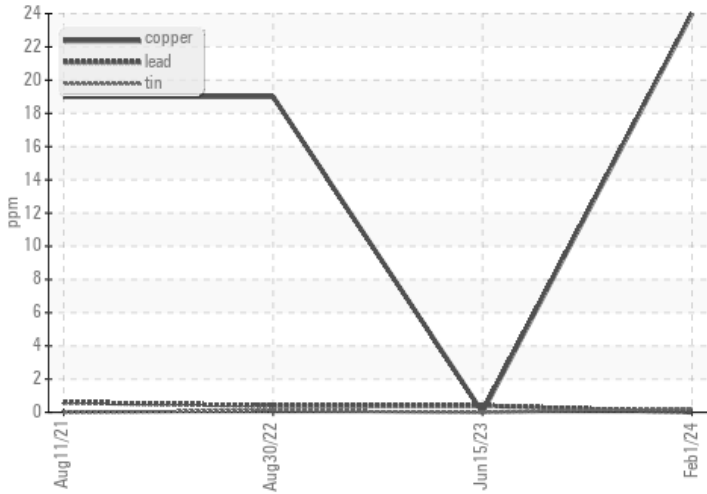


VOLVO GRAPHS

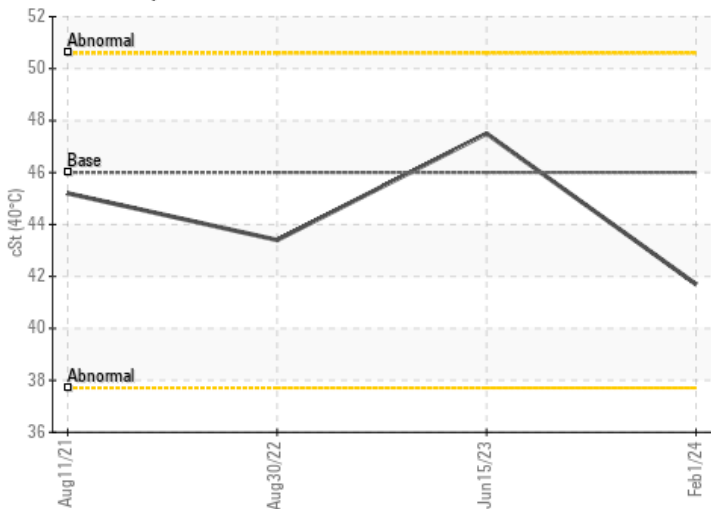
Ferrous Alloys



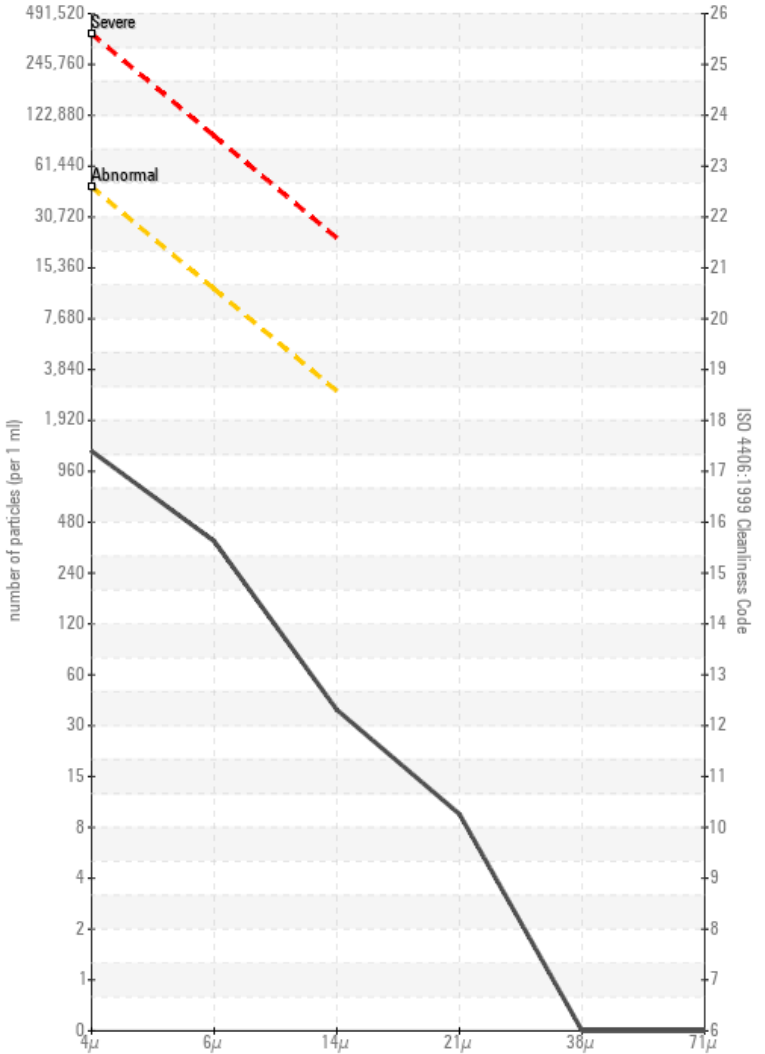
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

