



CONSTRUCTION EQUIPMENT

SPM606158 LKQ ORLAND VOLVO L90H 625664 - HYDRAULIC SYSTEM



Sample No: VCP432676
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SPM606158 LKQ ORLAND



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SAMPLE INFORMATION

Sample Number	VCP432676	VCP369969	VCP356999	VCP303979
Sample Date	06 Sep 2023	24 Oct 2022	31 Mar 2022	03 Jun 2021
Machine Hours	4016	2347	1497	493
Oil Hours	0	0	0	0
Oil Changed	Changed	Not Changd	Not Changd	N/A
Sample Status	NORMAL	ATTENTION	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	41.0	43.1	43.8	45.5
Acid Number (AN)	mg KOH/g	0.38	0.34	0.35	0.367



CONTAMINATION

Particles >4µm		1776	7136	1768	2092
Particles >6µm		179	815	205	187
Particles >14µm		7	32	12	8
ISO 4406:1999 (c)		18/15/10	20/17/12	18/15/11	18/15/10
Silicon	ppm	2	3	2	2
Sodium	ppm	<1	2	1	<1
Potassium	ppm	0	0	0	<1



WEAR METALS

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



ADDITIVES

Calcium	ppm	58	57	55	57
Magnesium	ppm	<1	2	2	3
Zinc	ppm	416	427	413	442
Phosphorus	ppm	331	330	339	338
Barium	ppm	0	0	0	0
Boron	ppm	0	0	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.

Depot: VOLVO0093
Unique No: 10647277
Signed: Wes Davis
Report Date: 16 Sep 2023

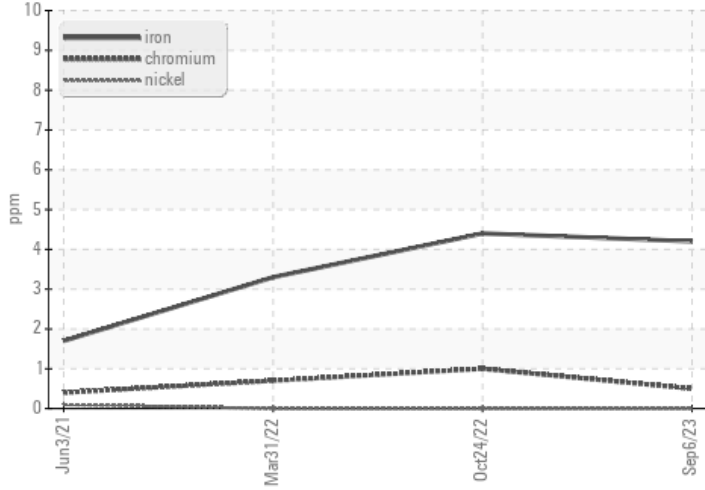


CONSTRUCTION EQUIPMENT

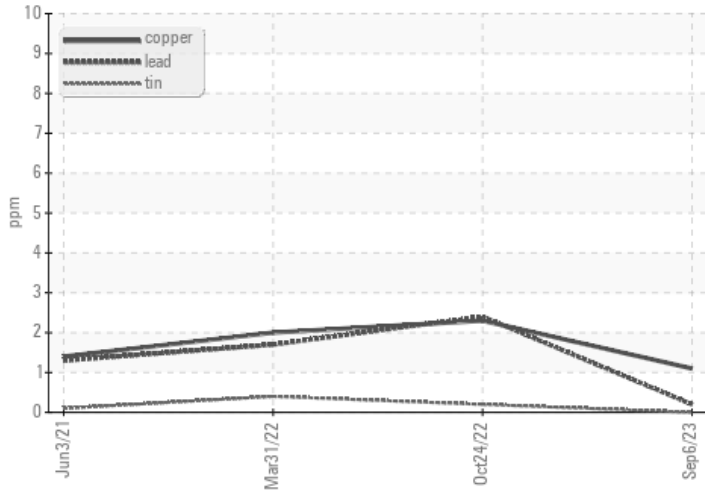


GRAPHS

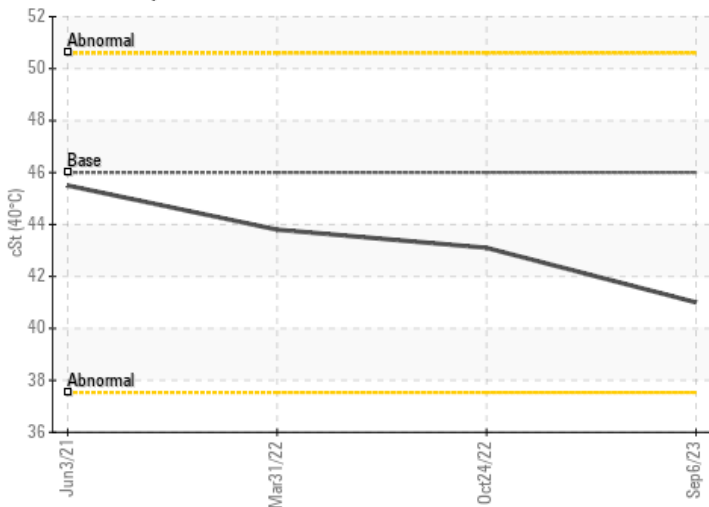
Ferrous Alloys



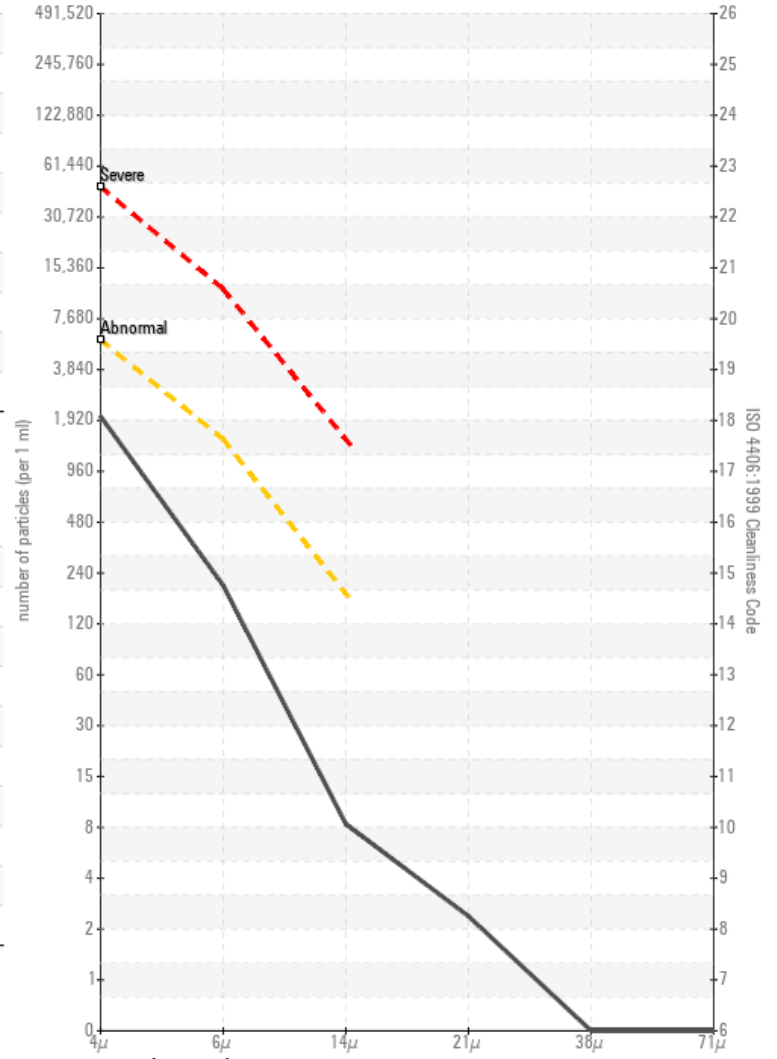
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

