



# CONSTRUCTION EQUIPMENT

## X48285 VOLVO EC350 310659 - HYDRAULIC SYSTEM



**Sample No:** VCP435976  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** X48285



### SAMPLE INFORMATION

Sample Number	<b>VCP435976</b>	VCP416423	VCP378218	VCP391022
Sample Date	<b>22 Dec 2023</b>	21 Jul 2023	07 Feb 2023	27 Oct 2022
Machine Hours	<b>7067</b>	6117	4999	4170
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>N/A</b>	N/A	N/A	Changed
Sample Status	<b>NORMAL</b>	ATTENTION	NORMAL	NORMAL

**SCOTT EQUIPMENT COMPANY LLC - Lake Charles**  
 PO BOX 16955  
 LAKE CHARLES, LA  
 US 70616  
 Contact: TINA LEDOUX  
 tledoux@scottcompanies.com  
 T: (337)433-9811  
 F: (318)433-6623



### OIL CONDITION

Visc @ 40°C	cSt	<b>43.0</b>	42.6	42.5	42.0
Acid Number (AN)	mg KOH/g	<b>0.50</b>	0.47	0.49	0.47



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Particles >4µm		<b>7009</b>	51823	16222	7476
Particles >6µm		<b>1850</b>	14031	4755	570
Particles >14µm		<b>188</b>	299	249	26
ISO 4406:1999 (c)		<b>20/18/15</b>	23/21/15	21/19/15	20/16/12
Silicon	ppm	<b>6</b>	8	5	5
Sodium	ppm	<b>1</b>	0	0	0
Potassium	ppm	<b>0</b>	<1	1	0

### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



### WEAR METALS

Iron	ppm	<b>11</b>	17	9	6
Copper	ppm	<b>20</b>	24	22	34
Lead	ppm	<b>0</b>	<1	<1	<1
Tin	ppm	<b>0</b>	0	0	0
Aluminum	ppm	<b>&lt;1</b>	<1	0	<1
Chromium	ppm	<b>2</b>	3	1	1
Molybdenum	ppm	<b>78</b>	52	64	0
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>0</b>	0	0	<1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>49</b>	46	46	45
Magnesium	ppm	<b>0</b>	<1	1	0
Zinc	ppm	<b>437</b>	409	411	374
Phosphorus	ppm	<b>445</b>	403	393	369
Barium	ppm	<b>0</b>	2	0	<1
Boron	ppm	<b>0</b>	0	0	0

**Depot:** VOLVO6244  
**Unique No:** 10809371  
**Signed:** Don Baldrige  
**Report Date:** 03 Jan 2024

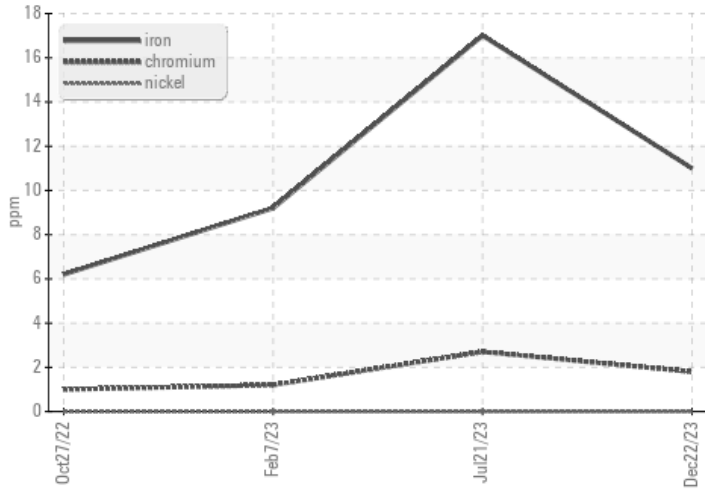


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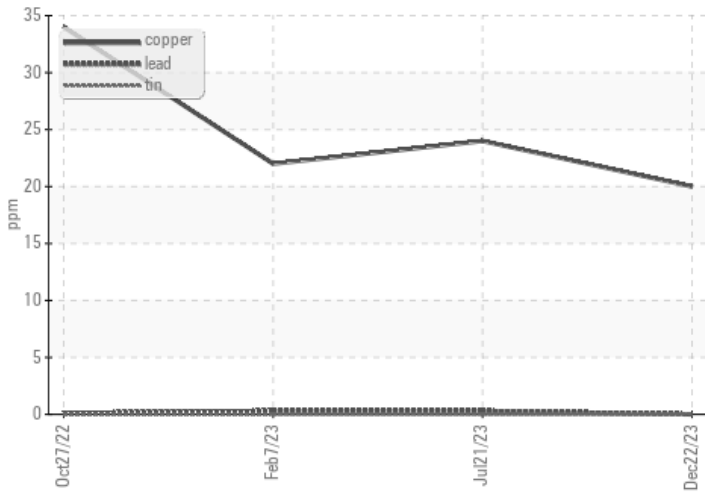


## GRAPHS

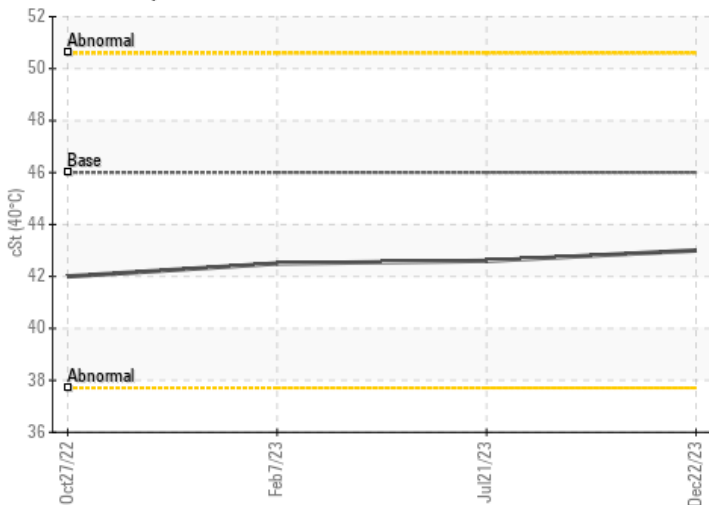
### Ferrous Alloys



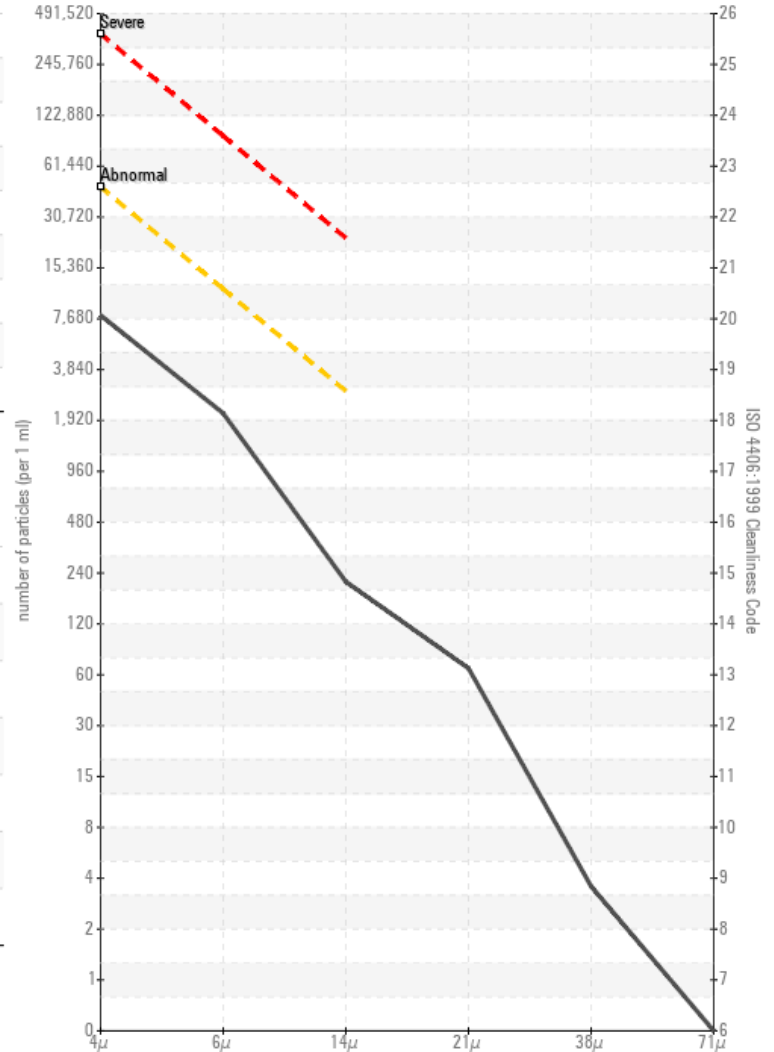
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

