



CONSTRUCTION EQUIPMENT

BULK EXPRESS VOLVO L180H 5720 - HYDRAULIC SYSTEM



Sample No: VCP432356
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: BULK EXPRESS



SAMPLE INFORMATION

Sample Number	VCP432356	VCP434602	VCP434897	---
Sample Date	20 Dec 2023	07 Nov 2023	13 Sep 2023	---
Machine Hours	2139	1692	1126	---
Oil Hours	0	0	0	---
Oil Changed	Not Chngd	Not Chngd	Not Chngd	---
Sample Status	ABNORMAL	ATTENTION	ATTENTION	---

ALTA EQUIPMENT/FLAGLER EQUIPMENT LLC
 9601 BOGGY CREEK RD
 ORLANDO, FL
 US 32824
 Contact: Robert LaPlante
 robert.laplante@altg.com
 T: (407)508-9736
 F: (407)659-8720

OIL CONDITION

Visc @ 40°C	cSt	41.7	41.4	41.9	---
Acid Number (AN)	mg KOH/g	0.33	0.44	0.35	---

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Particles >4µm		20081	7285	9935	---
Particles >6µm		5072	1539	2242	---
Particles >14µm		374	98	143	---
ISO 4406:1999 (c)		22/20/16	20/18/14	20/18/14	---
Silicon	ppm	<1	1	1	---
Sodium	ppm	0	<1	2	---
Potassium	ppm	0	<1	0	---

Diagnosis

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of particulates (2 to 100 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	<1	<1	2	---
Copper	ppm	2	2	2	---
Lead	ppm	<1	1	<1	---
Tin	ppm	0	0	0	---
Aluminum	ppm	0	0	0	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	<1	0	0	---
Nickel	ppm	0	0	0	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	0	0	<1	---
Vanadium	ppm	0	0	0	---

ADDITIVES

Calcium	ppm	51	29	51	---
Magnesium	ppm	0	0	2	---
Zinc	ppm	393	422	414	---
Phosphorus	ppm	304	302	312	---
Barium	ppm	0	0	0	---
Boron	ppm	0	0	0	---

Depot: VOLVO0096
Unique No: 10807483
Signed: Wes Davis
Report Date: 29 Dec 2023

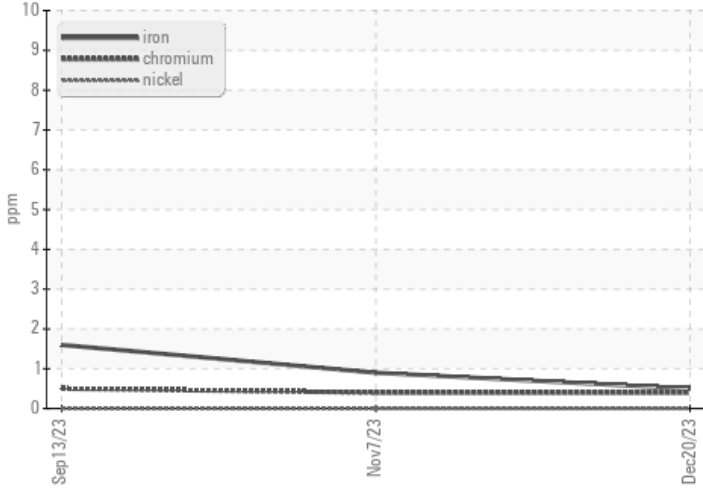


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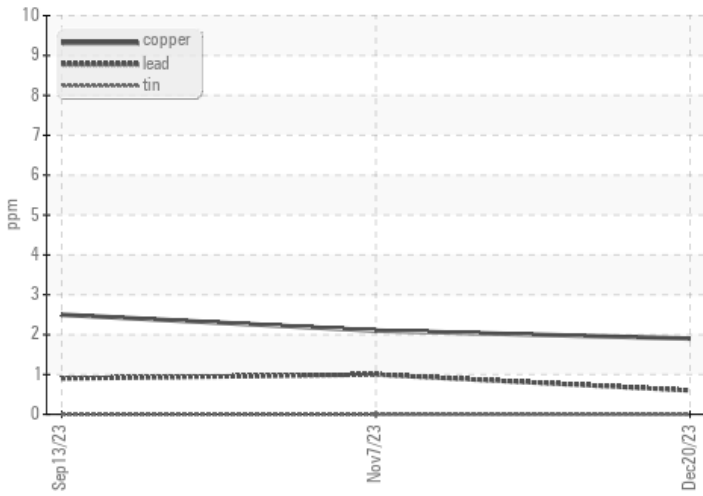


GRAPHS

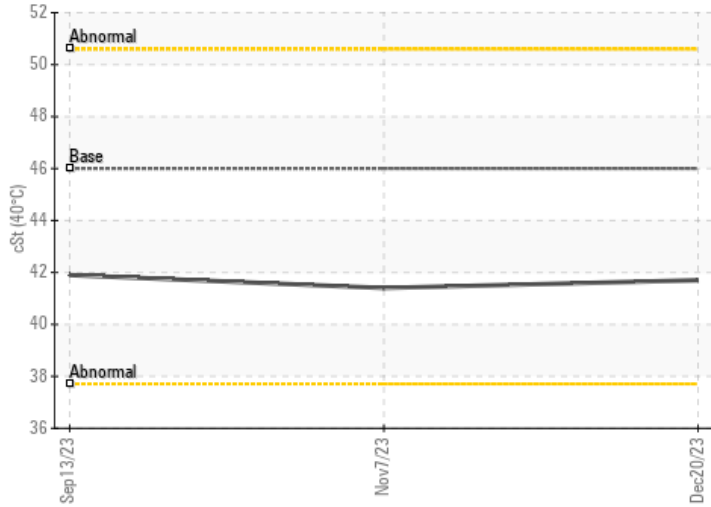
Ferrous Alloys



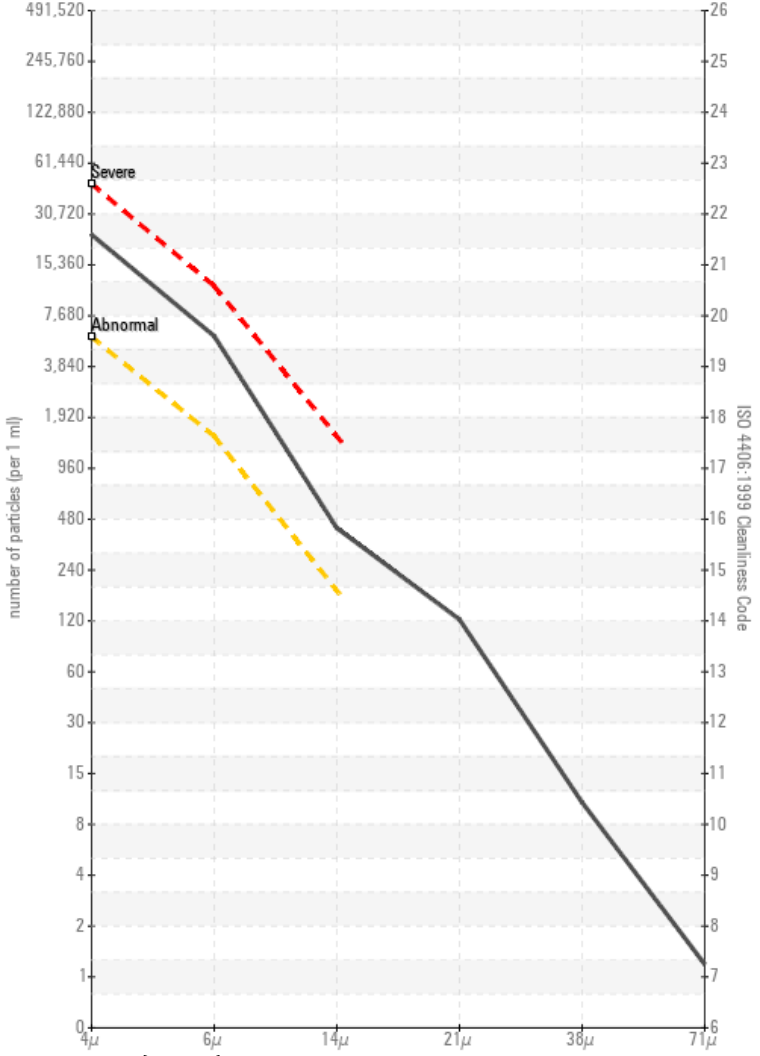
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

