



CONSTRUCTION EQUIPMENT

11720 VOLVO EC290BLC 11337 - HYDRAULIC SYSTEM



Sample No: VCP439459
Oil Type: MOBIL HYDRAULIC OIL AW 46
Job No: 11720



SAMPLE INFORMATION

Sample Number	VCP439459	VCP254838	VCP225103	---
Sample Date	18 Dec 2023	08 Apr 2020	17 Sep 2018	---
Machine Hours	1280	675	8260	---
Oil Hours	0	1500	1500	---
Oil Changed	N/A	Not Changd	Not Changd	---
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	---

DYER QUARRY

P.O. BOX 188, 1275 ROCK HOLLOW ROAD
 BIRDSBORO, PA
 US 19508
 Contact: MATT MCCLELLAND
 matt.mcclelland@dyerquarry.com
 T:
 F: (610)582-2304



OIL CONDITION

Visc @ 40°C	cSt	41.4	41.4	42.16	---
Acid Number (AN)	mg KOH/g	1.32	1.426	1.336	---



CONTAMINATION

Water	%	0.390	NEG	NEG	---
Particles >4µm		1018	---	129240	---
Particles >6µm		554	---	9848	---
Particles >14µm		94	---	245	---
ISO 4406:1999 (c)		17/16/14	---	24/20/15	---
Silicon	ppm	9	8	7	---
Sodium	ppm	7	7	8	---
Potassium	ppm	0	0	0	---

Diagnosis

We advise that you check for the source of water entry. We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. Appearance is hazy. There is a moderate concentration of water present in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



WEAR METALS

Iron	ppm	16	13	13	---
Copper	ppm	24	7	4	---
Lead	ppm	1	0	0	---
Tin	ppm	0	0	0	---
Aluminum	ppm	3	2	2	---
Chromium	ppm	1	<1	<1	---
Molybdenum	ppm	4	5	2	---
Nickel	ppm	0	<1	<1	---
Titanium	ppm	2	3	4	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	<1	0	0	---



ADDITIVES

Calcium	ppm	1682	2718	2262	---
Magnesium	ppm	53	70	36	---
Zinc	ppm	1029	1148	1038	---
Phosphorus	ppm	886	944	801	---
Barium	ppm	0	0	0	---
Boron	ppm	7	7	8	---

Depot: DYEBIR
Unique No: 10802681
Signed: Jonathan Hester
Report Date: 28 Dec 2023

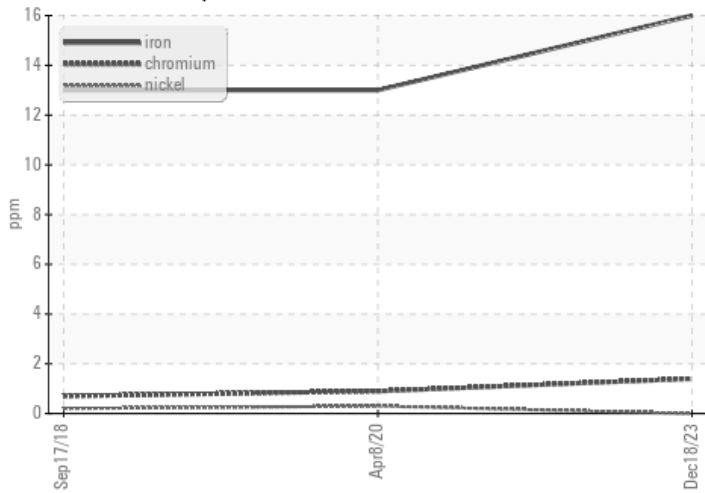


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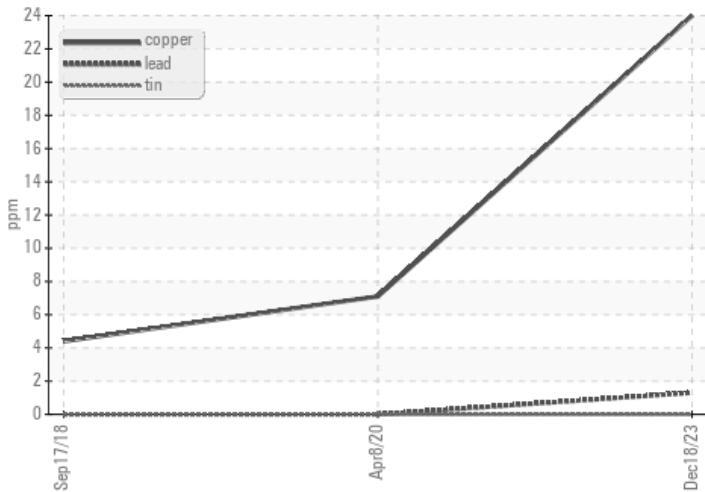


GRAPHS

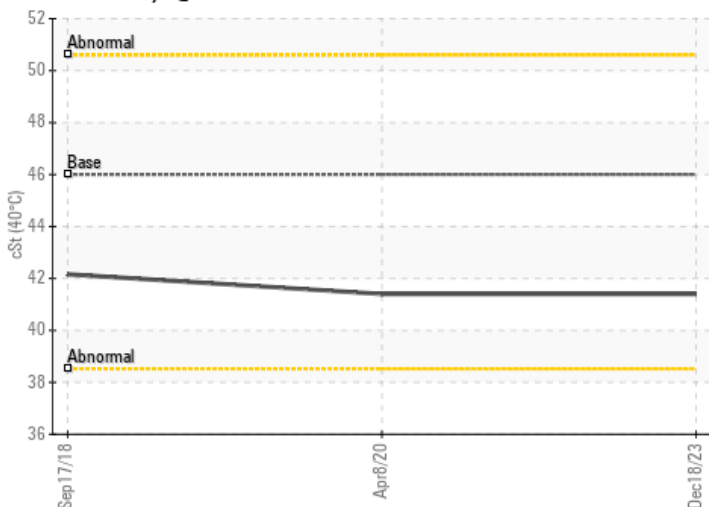
Ferrous Alloys



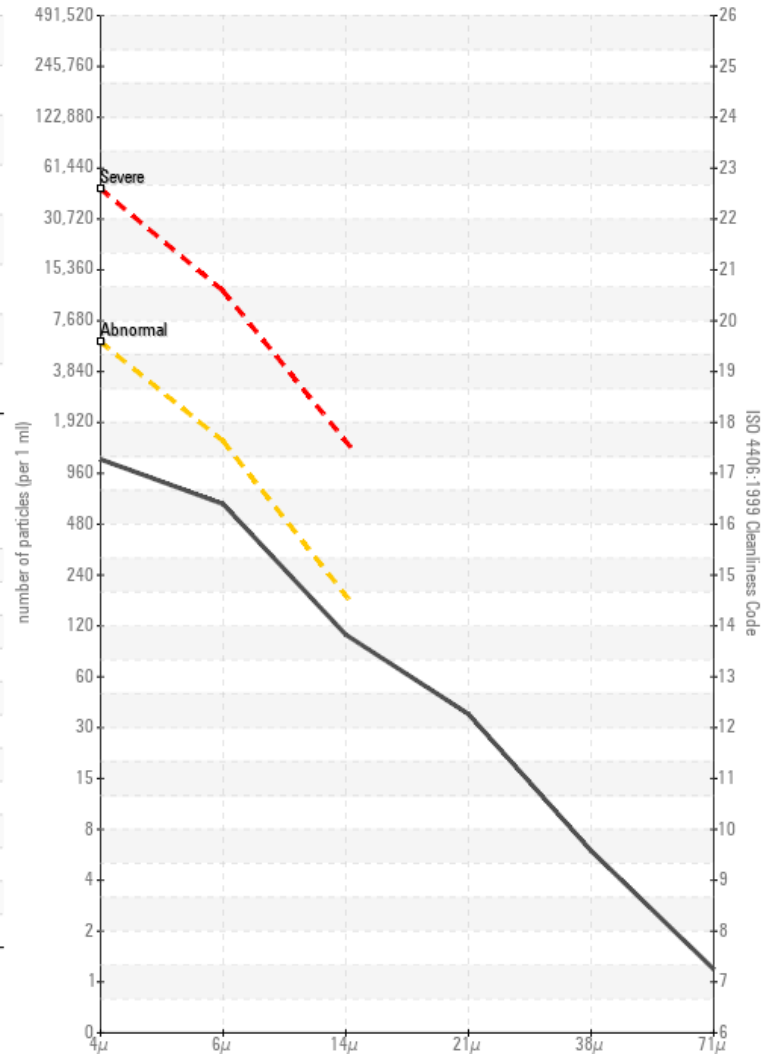
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

