



CONSTRUCTION EQUIPMENT

660413 VOLVO L150H 6057 - HYDRAULIC SYSTEM



Sample No: VCP454103
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 660413



SAMPLE INFORMATION

Sample Number	VCP454103	VCP422702	VCP394040	VCP388336
Sample Date	17 Jan 2024	10 Aug 2023	10 Mar 2023	18 Oct 2022
Machine Hours	12014	11051	10046	9035
Oil Hours	4000	3000	2000	500
Oil Changed	Changed	Not Changd	Not Changd	Not Changd
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	ABNORMAL

PARAGON DEVELOPMENT GROUP
 402 N FRONTAGE RD
 PLANT CITY, FL
 US 33563
 Contact: ED WALPOLE
 edwiv@pdgpc.com
 T:
 F:



OIL CONDITION

Visc @ 40°C	cSt	38.5	41.7	41.6	41.5
Acid Number (AN)	mg KOH/g	1.541	0.82	1.02	0.68



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		▲ 11330	▲ 92018	▲ 31170	▲ 51760
Particles >6µm		■ 748	▲ 17158	▲ 5310	▲ 2242
Particles >14µm		■ 34	▲ 842	▲ 721	■ 107
ISO 4406:1999 (c)		21/17/12	24/21/17	22/20/17	23/18/14
Silicon	ppm	■ 5	■ 8	■ 10	■ 10
Sodium	ppm	■ 3	■ 0	■ 2	■ <1
Potassium	ppm	■ 2	■ 2	■ <1	■ 2

Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present 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	■ 2	■ 6	■ 3	■ 6
Copper	ppm	■ 2	■ 2	■ <1	■ 2
Lead	ppm	■ 2	■ <1	■ <1	■ <1
Tin	ppm	■ <1	■ 0	■ 0	■ <1
Aluminum	ppm	■ <1	■ 1	■ 1	■ 2
Chromium	ppm	■ 0	■ 0	■ 0	■ <1
Molybdenum	ppm	■ 1	■ 3	■ 1	■ <1
Nickel	ppm	■ 0	■ 0	■ 0	■ 0
Titanium	ppm	<1	<1	0	<1
Silver	ppm	0	0	0	2
Manganese	ppm	■ <1	■ 0	■ <1	■ <1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	■ 1777	■ 2456	■ 3340	■ 3025
Magnesium	ppm	■ 19	■ 22	■ 27	■ 17
Zinc	ppm	■ 940	■ 1120	■ 1475	■ 1276
Phosphorus	ppm	■ 777	■ 868	■ 1083	■ 993
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 60	■ 86	■ 100	■ 91

Depot: PARPLA
Unique No: 10886435
Signed: Don Baldrige
Report Date: 21 Feb 2024

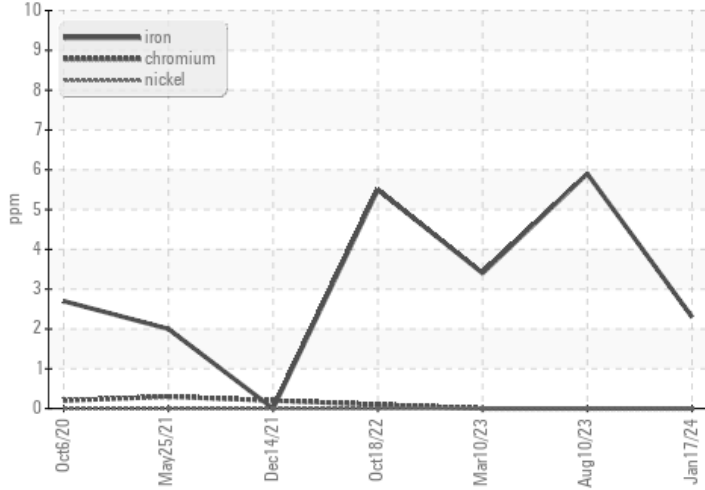


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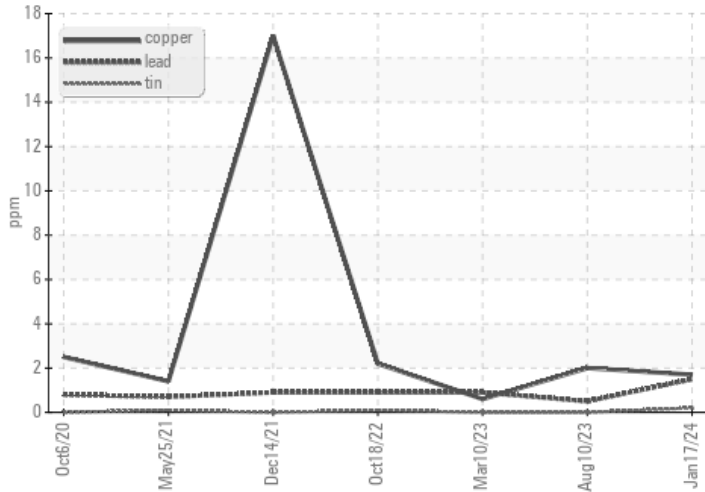


VOLVO GRAPHS

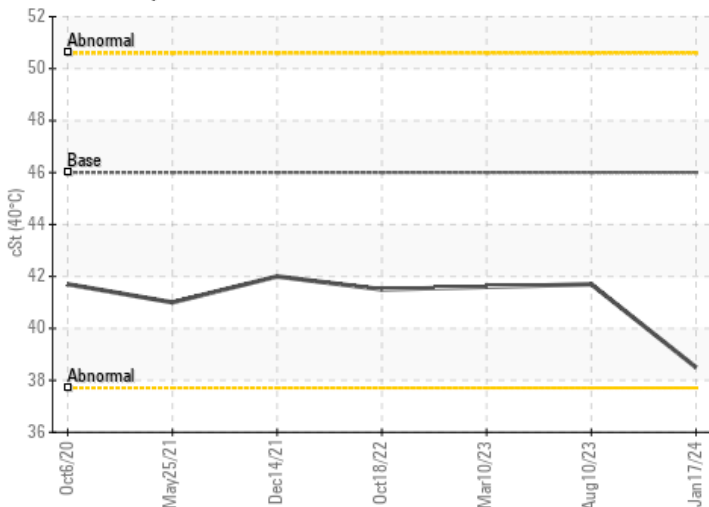
Ferrous Alloys



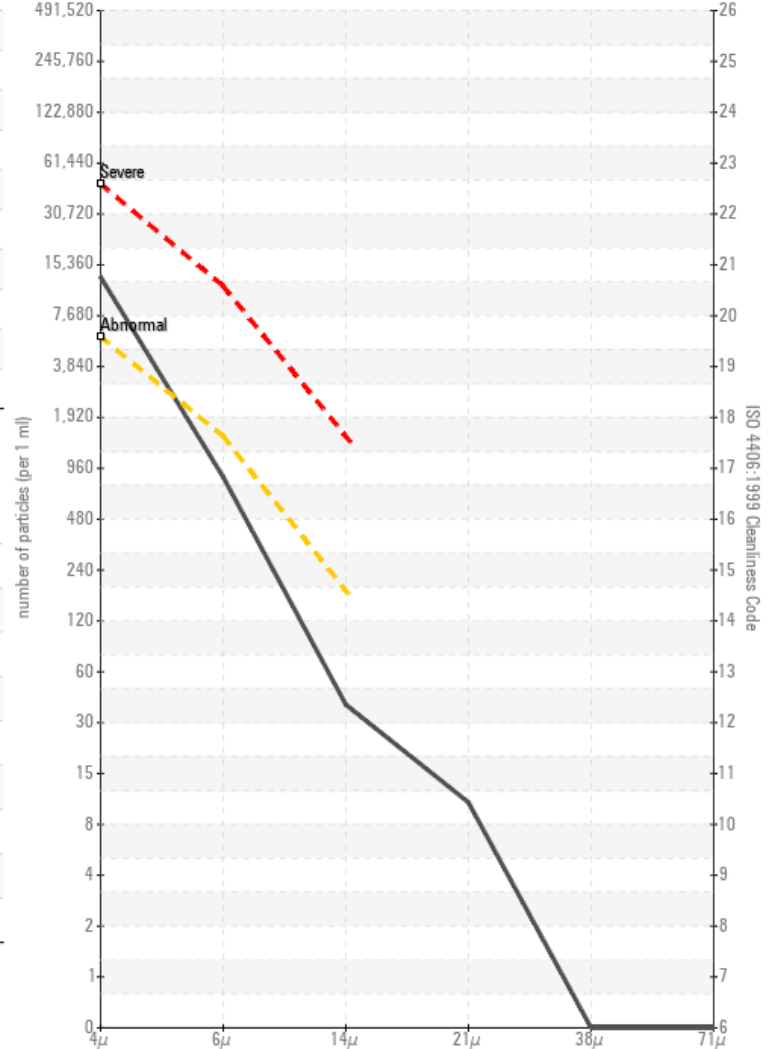
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

