



CONSTRUCTION EQUIPMENT

380667 16-8002 - HYDRAULIC SYSTEM



Sample No: VCP429737
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 380667



SAMPLE INFORMATION

Sample Number	VCP429737	VCP394899	VCP352929	VCE225503
Sample Date	06 Oct 2023	21 May 2023	25 Sep 2022	03 Feb 2016
Machine Hours	18004	16959	16000	4871
Oil Hours	2000	1000	4000	0
Oil Changed	Not Chngd	Not Chngd	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL

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P.O. BOX 5400
CONCORD, ON
CA L4K 1B6
Contact: Dan Brown
dan.brown@ca.crh.com
T:
F:



OIL CONDITION

Visc @ 40°C	cSt	41.6	42.6	41.0	40.2
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CONTAMINATION

Particles >4µm		11083	3928	1391	12787
Particles >6µm		2446	866	289	2540
Particles >14µm		67	49	12	99
ISO 4406:1999 (c)		21/18/13	19/17/13	18/15/11	21/19/14
Silicon	ppm	4	3	4	3
Sodium	ppm	2	1	3	<1
Potassium	ppm	0	<1	<1	0

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 condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	7	4	6	2
Copper	ppm	2	1	2	1
Lead	ppm	<1	<1	<1	<1
Tin	ppm	0	0	0	<1
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	<1	<1	<1	0
Molybdenum	ppm	0	0	0	0
Nickel	ppm	<1	0	<1	0
Titanium	ppm	0	0	<1	0
Silver	ppm	<1	0	0	0
Manganese	ppm	0	0	0	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	80	83	67	56
Magnesium	ppm	1	1	2	<1
Zinc	ppm	445	436	418	461
Phosphorus	ppm	344	376	370	355
Barium	ppm	<1	0	0	0
Boron	ppm	<1	<1	<1	0

Depot: HOLCON
Unique No: 5657711
Signed: Wes Davis
Report Date: 13 Oct 2023

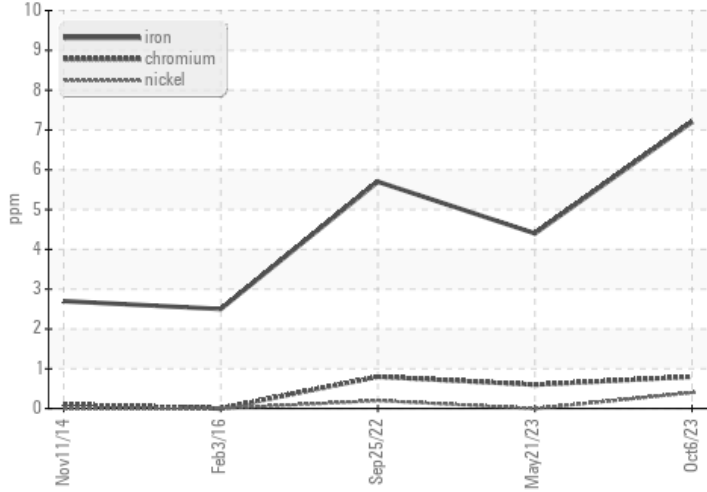


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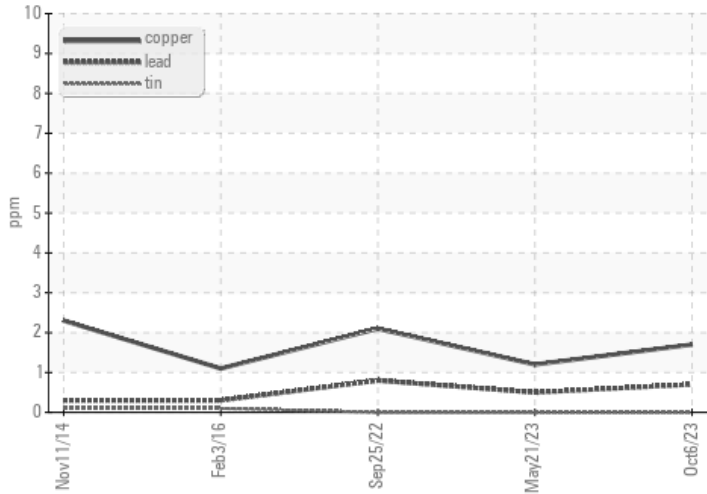


GRAPHS

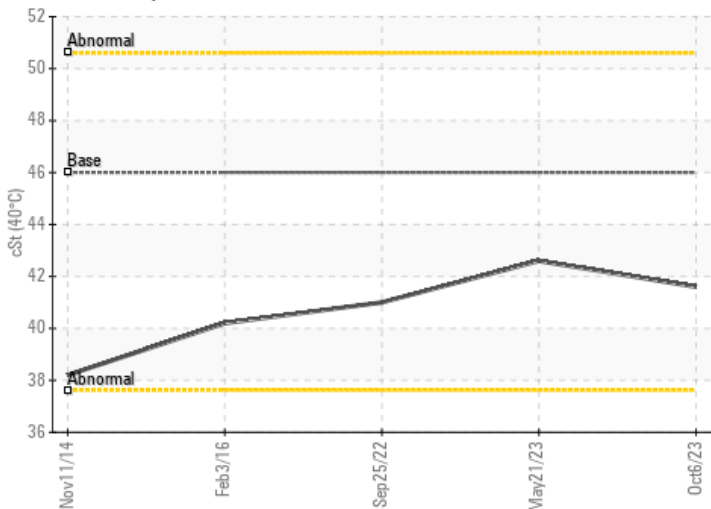
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

