



CONSTRUCTION EQUIPMENT

AMR-12TH STREET 480166 VOLVO L180H 5286 - HYDRAULIC SYSTEM



Sample No: VCP371019
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP371019	DJJ0014230	DJJ0014221	DJJ0014217
Sample Date	15 Apr 2024	17 Oct 2023	13 Apr 2023	30 Jan 2023
Machine Hours	9973	9515	8501	8011
Oil Hours	0	0	1500	2000
Oil Changed	Changed	Not Chngd	Not Chngd	Changed
Sample Status	NORMAL	ABNORMAL	NORMAL	ABNORMAL

ADVANTAGE METALS RECYCLING - 12 STREET
1153 S. 12TH STREET
KANSAS CITY, KS
US 66105
Contact: JOHN PEEK
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F: (913)621-2766



OIL CONDITION

Visc @ 40°C	cSt	43.2	43.1	42.8	42.8
Acid Number (AN)	mg KOH/g	0.38	0.33	0.30	0.34



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		5681	16559	8321	32598
Particles >6µm		907	3877	1675	7785
Particles >14µm		29	212	62	332
ISO 4406:1999 (c)		20/17/12	21/19/15	20/18/13	22/20/16
Silicon	ppm	3	1	<1	17
Sodium	ppm	<1	1	2	2
Potassium	ppm	1	1	0	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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



WEAR METALS

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



ADDITIVES

Calcium	ppm	55	47	55	71
Magnesium	ppm	3	0	2	1
Zinc	ppm	424	408	429	428
Phosphorus	ppm	360	317	337	345
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	0

Depot: ADVKANLH
Unique No: 10993855
Signed: Wes Davis
Report Date: 24 Apr 2024

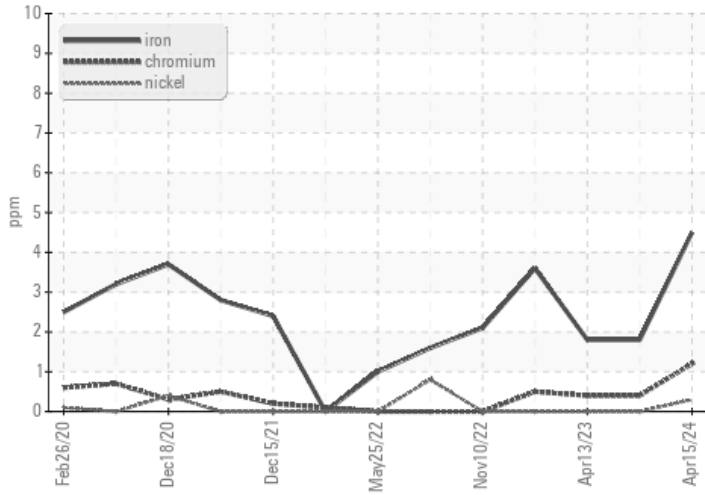


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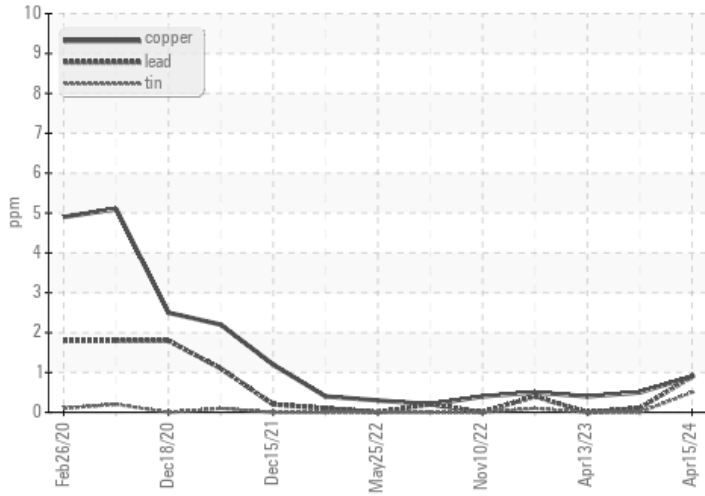


GRAPHS

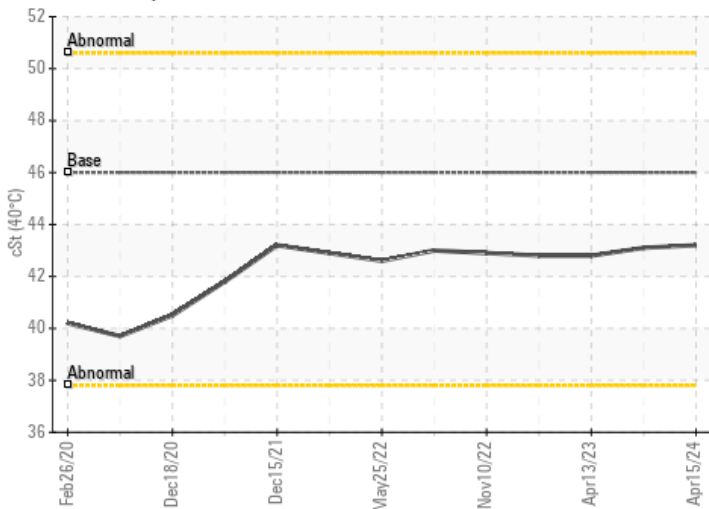
Ferrous Alloys



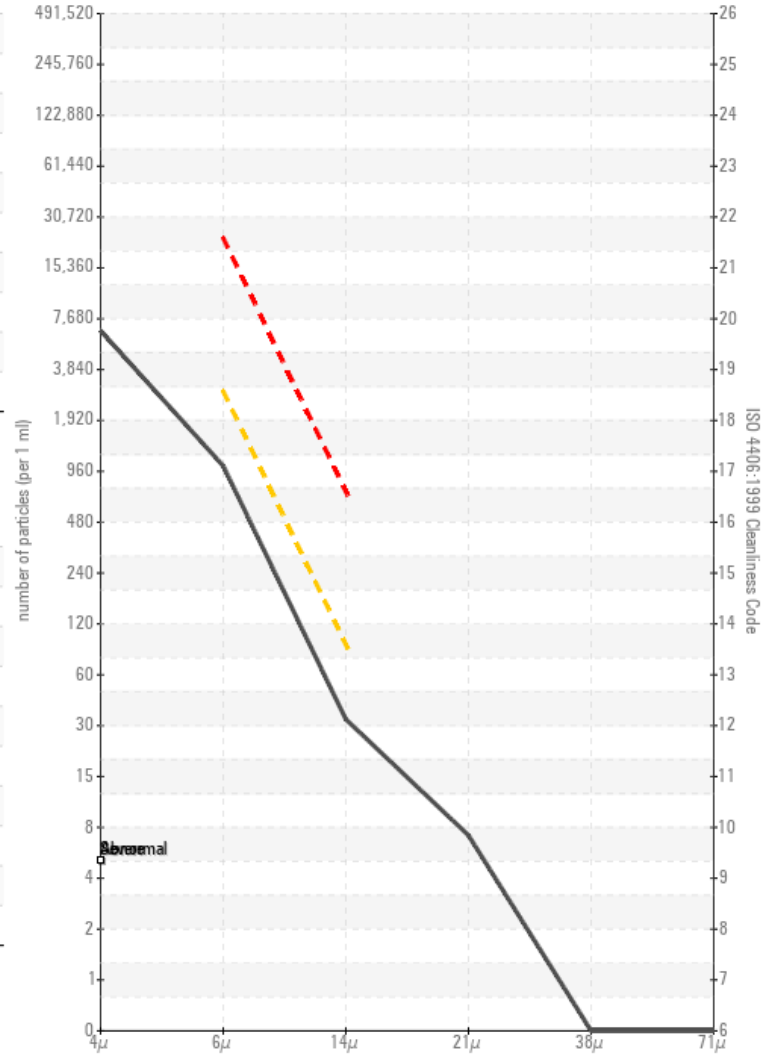
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

