



CONSTRUCTION EQUIPMENT

SWO-063459 VOLVO A45G 342067 - WET DISC BRAKE



Sample No: VCP424721
Oil Type: NOT GIVEN
Job No: SWO-063459



SAMPLE INFORMATION

Sample Number	VCP424721	VCP392783	VCP367375	VCP366686
Sample Date	22 Jun 2023	14 Feb 2023	03 Nov 2022	04 Aug 2022
Machine Hours	6450	5835	5435	4970
Oil Hours	0	0	0	0
Oil Changed	Changed	Not Changd	Not Changd	Not Changd
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	ABNORMAL

WHITAKER CONTRACTING

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 BrotherWhitaker@whitaker-contracting.com
 T: (256)298-3905
 F:



OIL CONDITION

Visc @ 40°C	cSt	46.1	55.5	46.9	46.9
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CONTAMINATION

Silicon	ppm	16	18	17	16
Sodium	ppm	4	6	4	5
Potassium	ppm	<1	0	0	0



WEAR METALS

Iron	ppm	29	45	29	22
Copper	ppm	355	364	341	312
Lead	ppm	0	5	4	<1
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	2	<1	2	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	1	2	2	2
Nickel	ppm	5	6	6	4
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	2	2	2	2
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	2990	3189	3255	3312
Magnesium	ppm	21	22	23	22
Zinc	ppm	1273	1255	1374	1381
Phosphorus	ppm	1150	1105	1145	1180
Barium	ppm	0	0	0	0
Boron	ppm	84	106	99	143

Diagnosis

The oil 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. The copper level is abnormal. All other component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: WHIGUN
Unique No: 10536407
Signed: Don Baldrige
Report Date: 02 Jul 2023

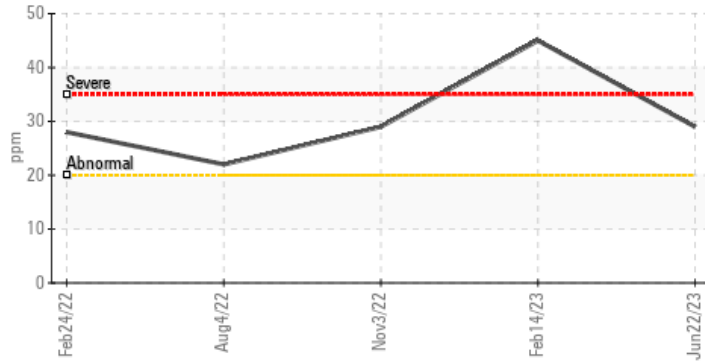


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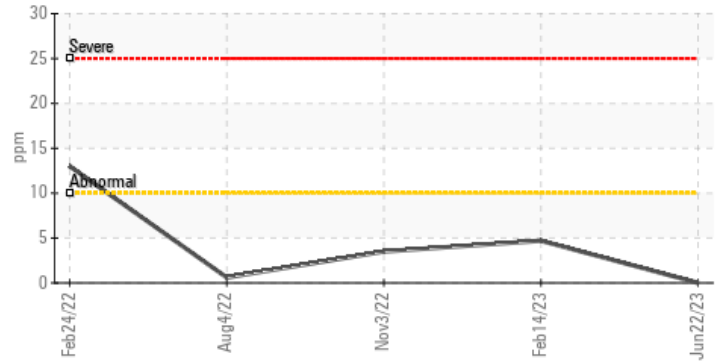


GRAPHS

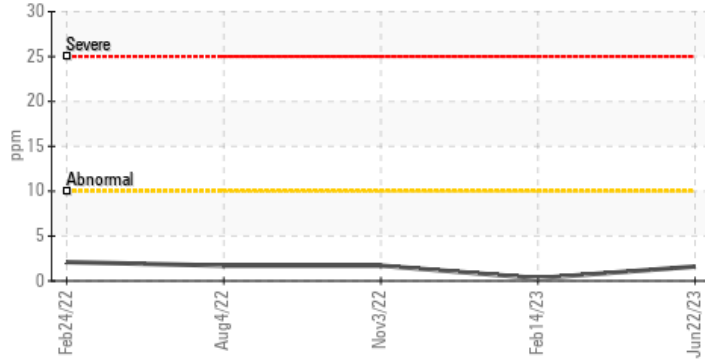
Iron (ppm)



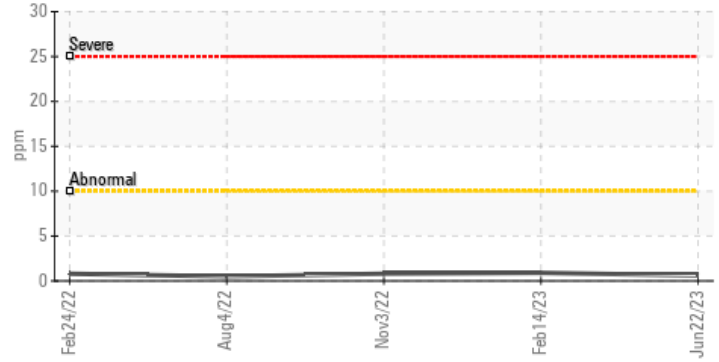
Lead (ppm)



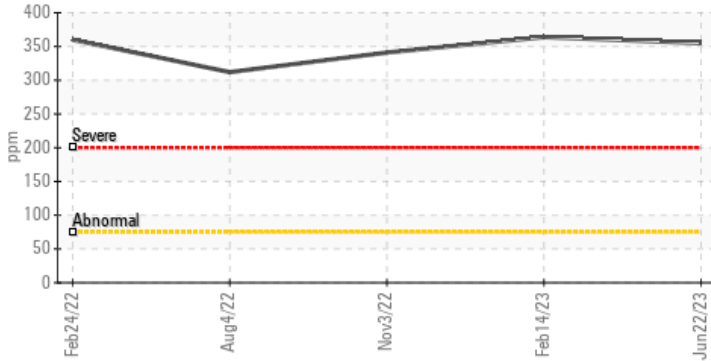
Aluminum (ppm)



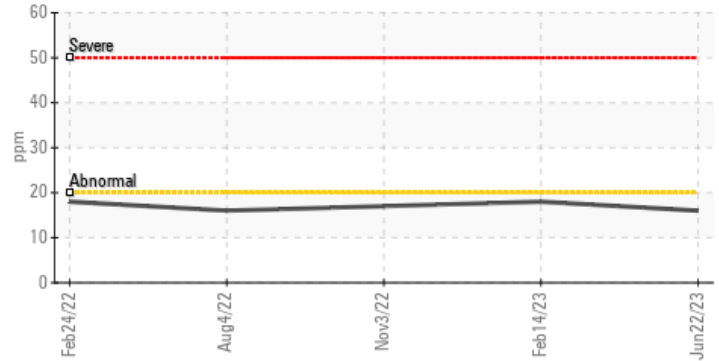
Chromium (ppm)



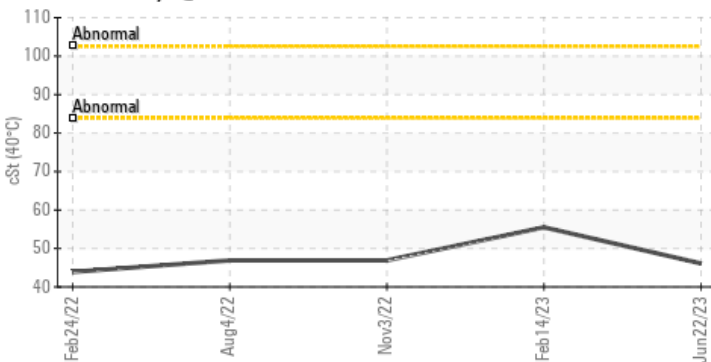
Copper (ppm)



Silicon (ppm)



Viscosity @ 40°C



Additives

