



CONSTRUCTION EQUIPMENT

VOLVO L180H 5035 - FRONT AXLE



Sample No: VCP447749
Oil Type: VOLVO WET BRAKE TRANSAXLE OIL
Job No:



SAMPLE INFORMATION

Sample Number	VCP447749	VCP433527	VCP337363	VCP280156
Sample Date	05 Jun 2024	24 Oct 2023	16 Aug 2021	20 Jul 2020
Machine Hours	13649	11898	6535	4264
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Not Changd	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	43.0	42.0	42.0	38.9
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	11	13	9	9
Sodium	ppm	4	0	7	4
Potassium	ppm	4	3	<1	0

Diagnosis

Resample at the next service interval to monitor. All 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.



WEAR METALS

Iron	ppm	37	71	51	28
Copper	ppm	10	18	20	23
Lead	ppm	4	0	0	<1
Tin	ppm	2	<1	0	0
Aluminum	ppm	1	1	0	<1
Chromium	ppm	<1	<1	1	<1
Molybdenum	ppm	3	<1	5	<1
Nickel	ppm	0	<1	<1	<1
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	1	1	1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	3313	3940	4080	3328
Magnesium	ppm	16	14	16	6
Zinc	ppm	1374	1563	1508	1493
Phosphorus	ppm	1145	1328	1361	1272
Barium	ppm	0	0	0	0
Boron	ppm	111	144	155	99

Depot: VOLVO0090
Unique No: 11074370
Signed: Wes Davis
Report Date: 13 Jun 2024

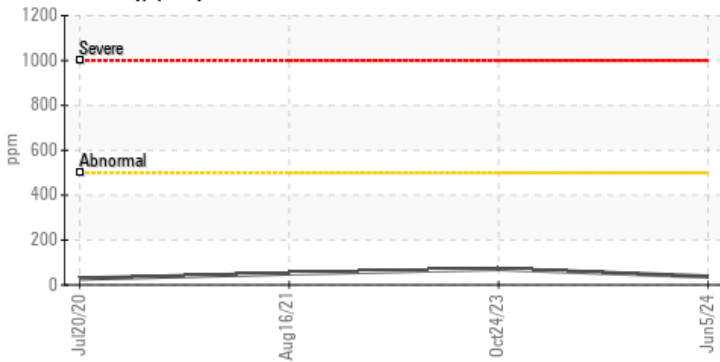


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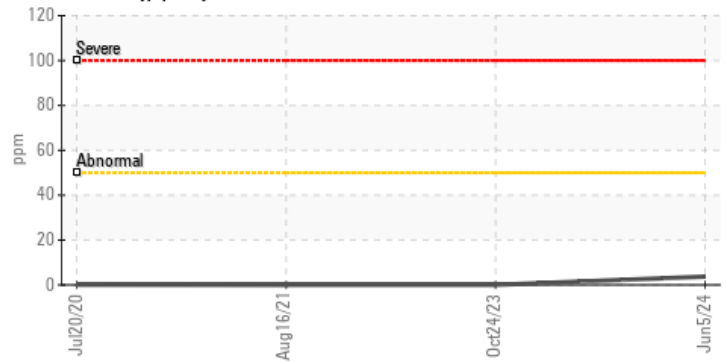


GRAPHS

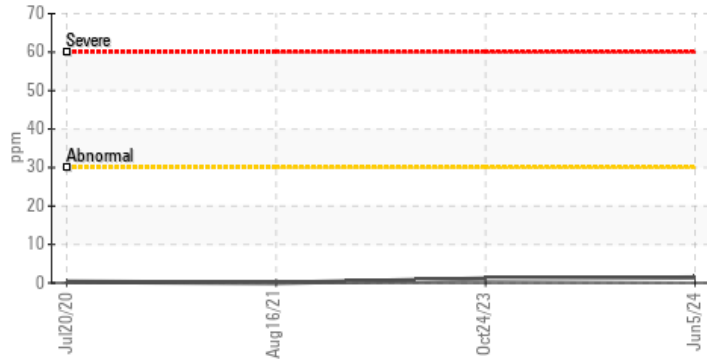
Iron (ppm)



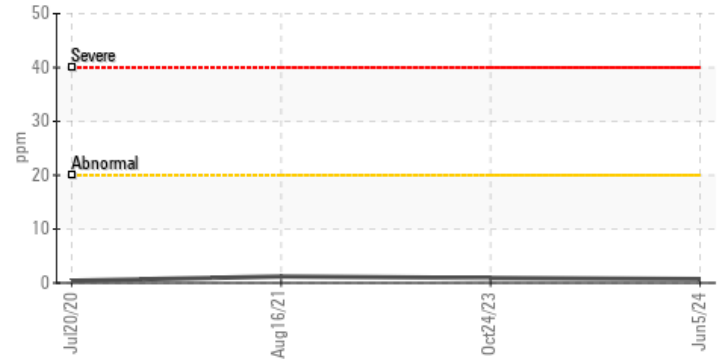
Lead (ppm)



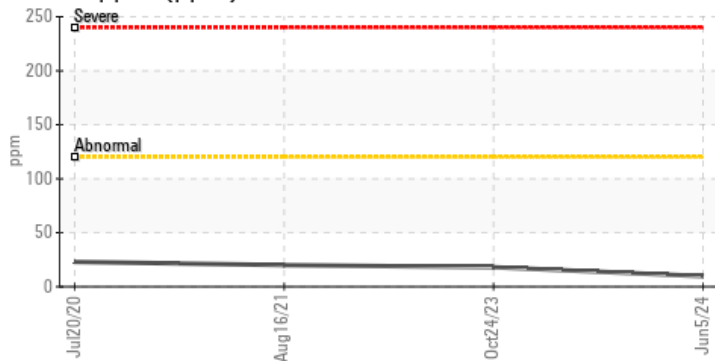
Aluminum (ppm)



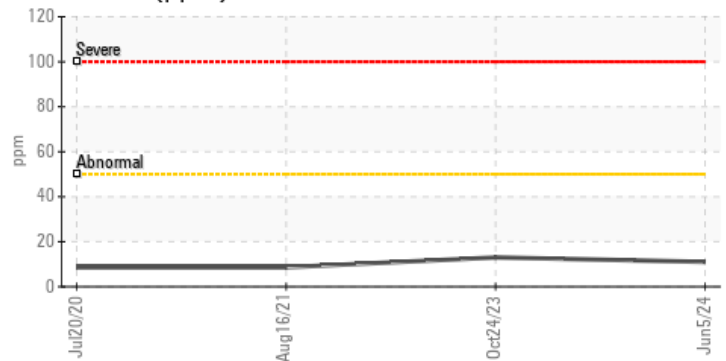
Chromium (ppm)



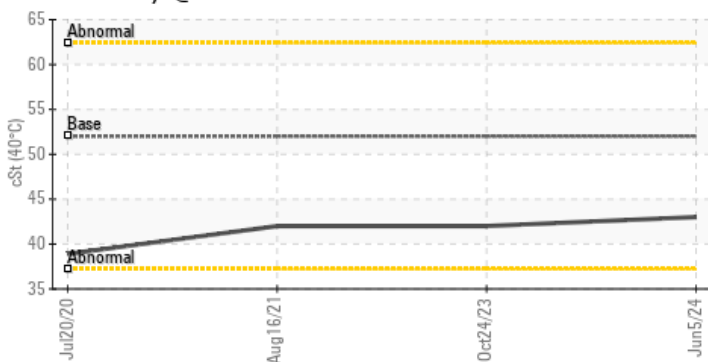
Copper (ppm)



Silicon (ppm)



Viscosity @ 40°C



Additives

