



CONSTRUCTION EQUIPMENT

SWA508892 VOLVO EC220E 314443 - REAR RIGHT FINAL DRIVE



Sample No: VCP370076
Oil Type: VOLVO PREMIUM GEAR OIL 80W-90 GL-5
Job No: SWA508892



SAMPLE INFORMATION

Sample Number	VCP370076	VCP417375	VCP405692	VCP347802
Sample Date	21 Mar 2024	08 Sep 2023	25 Apr 2023	12 Jan 2022
Machine Hours	4766	4261	3763	1501
Oil Hours	500	0	0	0
Oil Changed	Not Chngd	Changed	Not Chngd	N/A
Sample Status	NORMAL	ABNORMAL	ABNORMAL	ABNORMAL

ALTA EQUIPMENT

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 SYRACUSE, NY
 US 13206
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OIL CONDITION

Visc @ 40°C	cSt	145	375	151	146
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CONTAMINATION

Water	%	NEG	NEG	▲ 0.160	NEG
Silicon	ppm	834	▲ 4095	▲ 2624	▲ 427
Sodium	ppm	14	80	52	8
Potassium	ppm	62	289	192	45

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	1857	▲ 7404	▲ 4816	▲ 710
Copper	ppm	3	8	5	<1
Lead	ppm	1	1	0	0
Tin	ppm	0	2	<1	0
Aluminum	ppm	170	● 721	● 489	● 136
Chromium	ppm	13	▲ 61	▲ 38	▲ 10
Molybdenum	ppm	2	9	5	<1
Nickel	ppm	6	21	14	3
Titanium	ppm	14	67	47	8
Silver	ppm	0	0	<1	0
Manganese	ppm	17	74	45	10
Vanadium	ppm	<1	2	2	<1



ADDITIVES

Calcium	ppm	44	207	121	25
Magnesium	ppm	25	127	81	20
Zinc	ppm	7	24	18	<1
Phosphorus	ppm	1092	1013	962	992
Barium	ppm	2	5	3	<1
Boron	ppm	194	155	158	180

Depot: VOLV00142
Unique No: 10942405
Signed: Wes Davis
Report Date: 26 Mar 2024

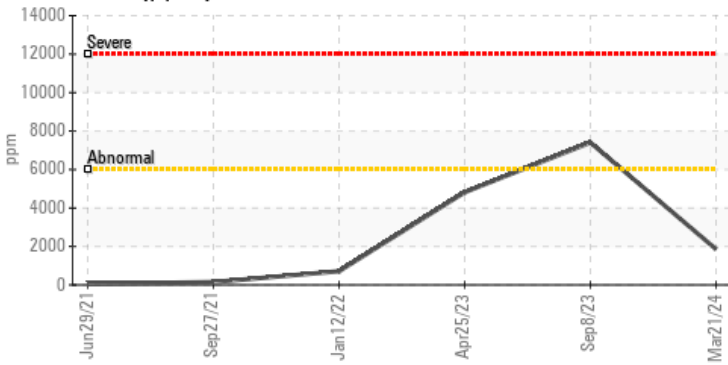


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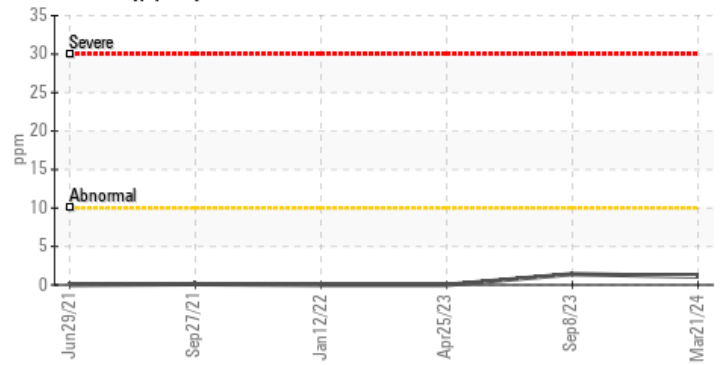


VOLVO GRAPHS

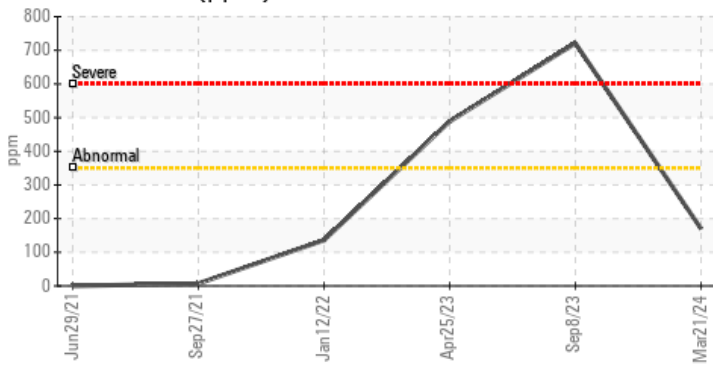
Iron (ppm)



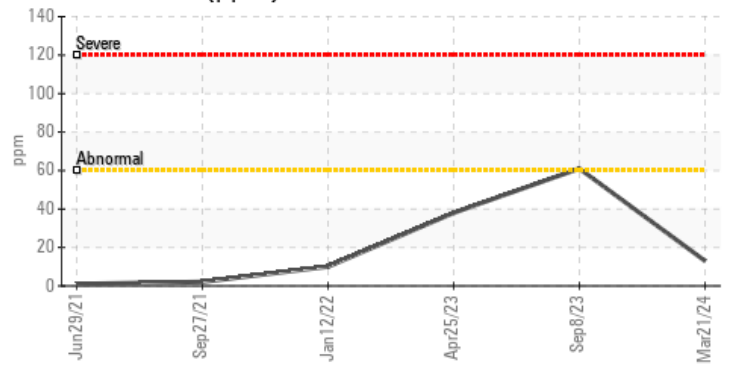
Lead (ppm)



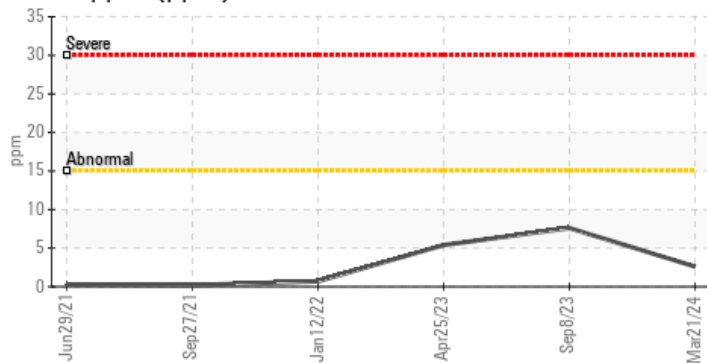
Aluminum (ppm)



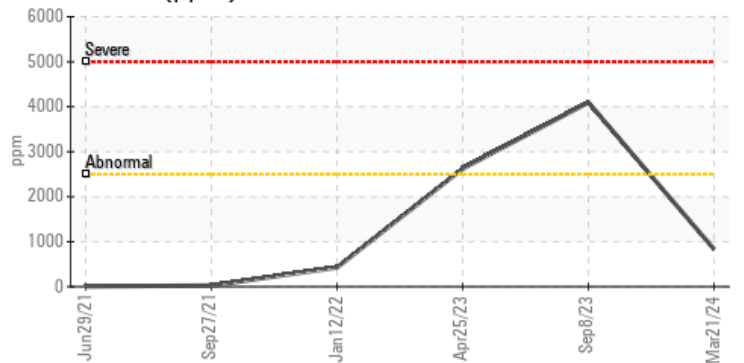
Chromium (ppm)



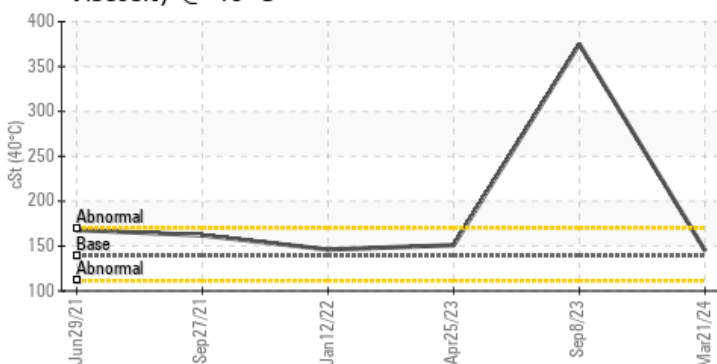
Copper (ppm)



Silicon (ppm)



Viscosity @ 40°C



Additives

