



CONSTRUCTION EQUIPMENT

VOLVO EC250E 310119 - SWING DRIVE



Sample No: VCP449587
Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No:



SAMPLE INFORMATION

Sample Number	VCP449587	VCP216277	VCP193566	VCP198392
Sample Date	22 Jun 2024	15 Nov 2017	07 Apr 2017	12 Oct 2016
Machine Hours	14587	4665	3028	1753
Oil Hours	0	0	2000	0
Oil Changed	Changed	Changed	Changed	Not Changd
Sample Status	ABNORMAL	NORMAL	SEVERE	ABNORMAL

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OIL CONDITION

Visc @ 40°C	cSt	333	270.7	187.4	171.1
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CONTAMINATION

Water	%	0.202	NEG	NEG	NEG
Silicon	ppm	15	9	4	2
Sodium	ppm	<1	2	8	3
Potassium	ppm	0	0	4	<1

Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	744	818	3263	1321
Copper	ppm	17	23	68	19
Lead	ppm	0	2	2	<1
Tin	ppm	0	0	3	0
Aluminum	ppm	<1	1	4	<1
Chromium	ppm	3	7	38	12
Molybdenum	ppm	0	0	0	0
Nickel	ppm	0	<1	1	<1
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	5	8	35	12
Vanadium	ppm	0	0	<1	<1



ADDITIVES

Calcium	ppm	32	44	38	10
Magnesium	ppm	3	7	0	1
Zinc	ppm	30	59	51	22
Phosphorus	ppm	1055	758	593	308
Barium	ppm	0	0	2	<1
Boron	ppm	107	78	5	3

Depot: VOLVO0090
Unique No: 11099776
Signed: Angela Borella
Report Date: 28 Jun 2024

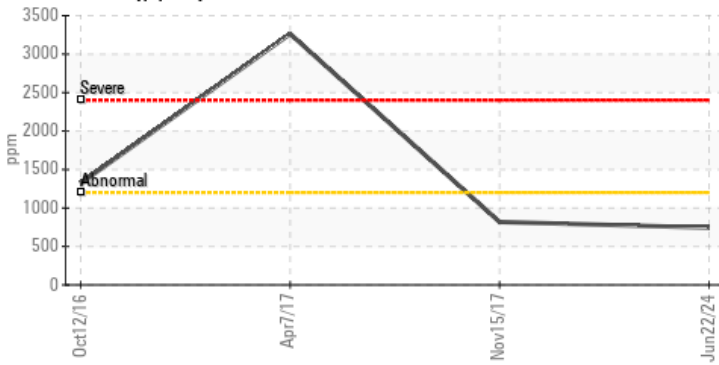


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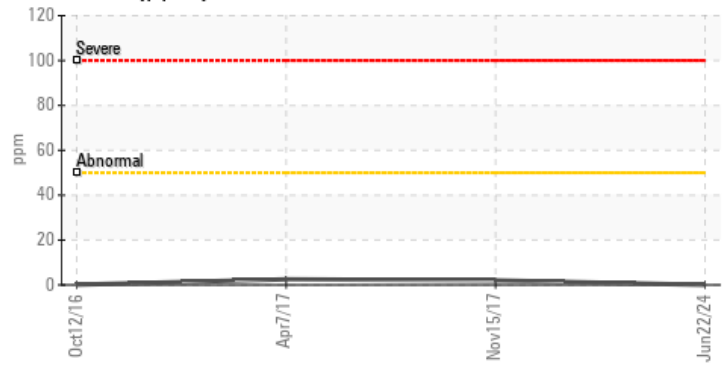


GRAPHS

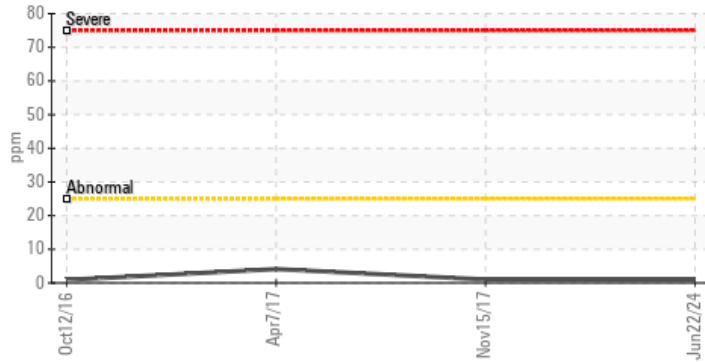
Iron (ppm)



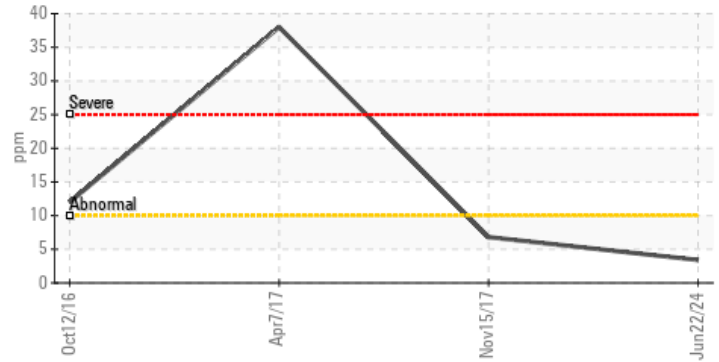
Lead (ppm)



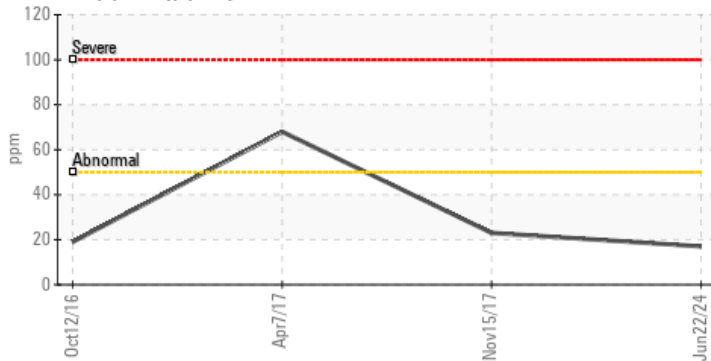
Aluminum (ppm)



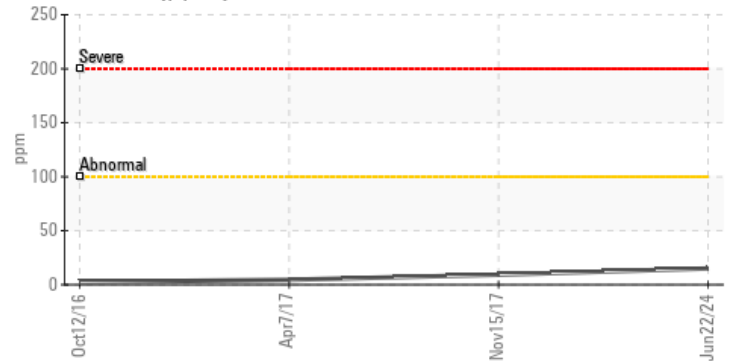
Chromium (ppm)



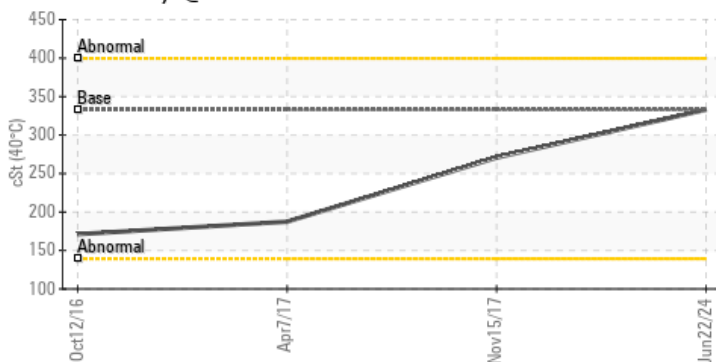
Copper (ppm)



Silicon (ppm)



Viscosity @ 40°C



Additives

