



CONSTRUCTION EQUIPMENT

W05003703 VOLVO A45G 342679 - DIESEL ENGINE



Sample No: VCP416211
Oil Type: MOBIL 15W40
Job No: W05003703



SAMPLE INFORMATION

Sample Number	VCP416211	VCP419602	VCP395333	VCP322042
Sample Date	23 Jun 2023	04 May 2023	22 Mar 2023	06 Jan 2023
Machine Hours	6984	6766	6564	6314
Oil Hours	250	500	250	250
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

MCCLUNG-LOGAN EQUIPMENT CO INC
8450 QUARRY ROAD
MANASSAS, VA
US 20110
Contact: MIKE MAYHUGH
MMAYHUGH@MCCLUNG-LOGAN.COM
T: (703)393-7344
F: (703)393-7844



OIL CONDITION

Visc @ 100°C	cSt	13.0	13.0	12.7	12.8
Base Number (BN)	mg KOH/g	9.0	9.1	8.8	8.5
Oxidation (PA)	%	63	63	62	63

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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



CONTAMINATION

Soot %	%	0.2	0.1	0.2	0.2
Nitration (PA)	%	52	48	53	53
Sulfation (PA)	%	62	62	61	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	5	5
Sodium	ppm	2	1	<1	2
Potassium	ppm	1	<1	2	0



WEAR METALS

Iron	ppm	2	2	2	3
Copper	ppm	0	<1	0	<1
Lead	ppm	0	0	0	<1
Tin	ppm	0	0	0	<1
Aluminum	ppm	2	2	2	3
Chromium	ppm	0	<1	0	<1
Molybdenum	ppm	130	119	111	107
Nickel	ppm	0	<1	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	1729	1451	1617	1500
Magnesium	ppm	692	609	703	674
Zinc	ppm	991	820	944	889
Phosphorus	ppm	802	685	751	745
Barium	ppm	0	0	0	0
Boron	ppm	388	380	318	285

Depot: VOLVO0002
Unique No: 10536781
Signed: Wes Davis
Report Date: 02 Jul 2023

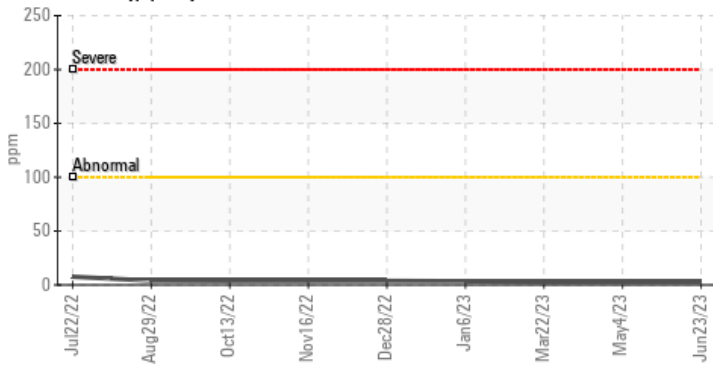


CONSTRUCTION EQUIPMENT

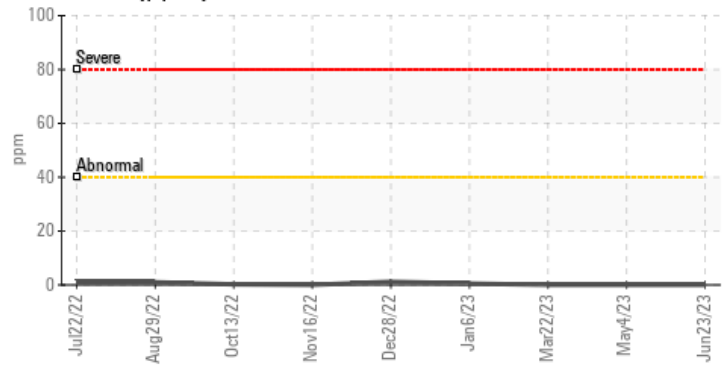


GRAPHS

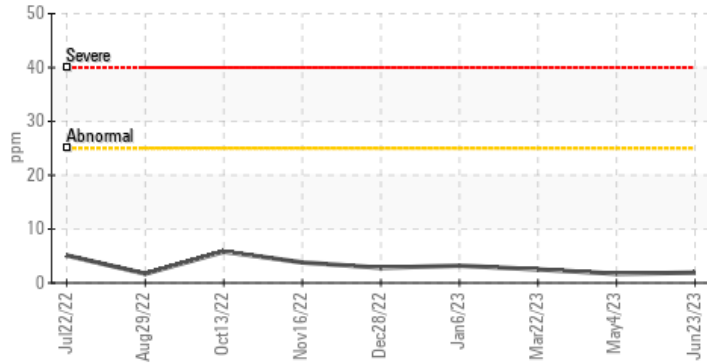
Iron (ppm)



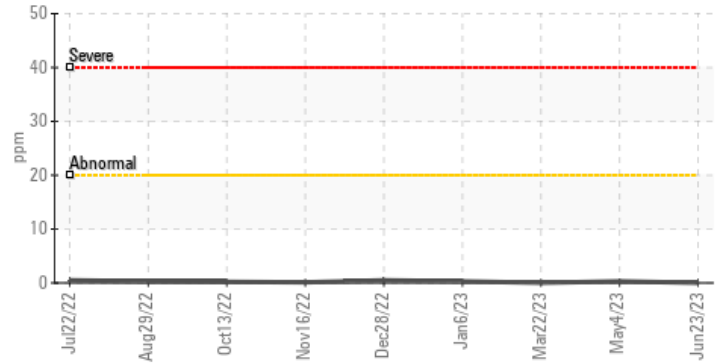
Lead (ppm)



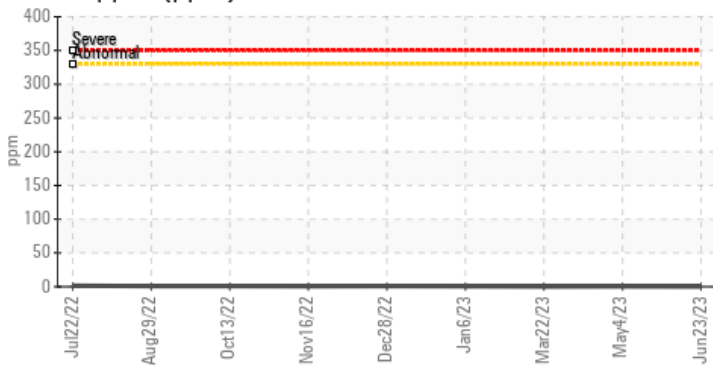
Aluminum (ppm)



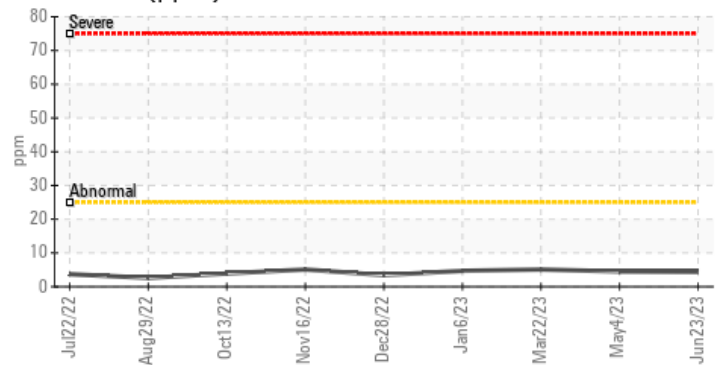
Chromium (ppm)



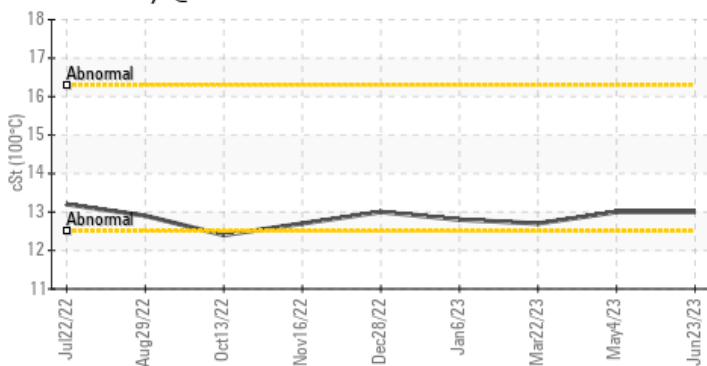
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

