



CONSTRUCTION EQUIPMENT

SWO-071203 VOLVO L120H 632828 - DIESEL ENGINE



Sample No: VCP449837
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWO-071203



SAMPLE INFORMATION

Sample Number	VCP449837	VCP447529	VCP432960	VCP412981
Sample Date	16 Apr 2024	05 Jan 2024	04 Oct 2023	30 May 2023
Machine Hours	4868	4372	3901	3418
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

SAIIA CONSTRUCTION LLC

4400 LEWISBURG RD
 BIRMINGHAM, AL
 US 35207
 Contact: STEPHANI BRITTON
 sbritton@saiia.com;doug.bogart@wearcheck.com
 T: (205)943-2268
 F: (205)943-2269



OIL CONDITION

Visc @ 100°C	cSt	13.4	13.5	13.3	13.5
Base Number (BN)	mg KOH/g	10.1	10.1	9.5	10.3
Oxidation (PA)	%	83	82	80	82

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 acceptable for the time in service.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.2	0.3	0.3
Nitration (PA)	%	63	60	58	66
Sulfation (PA)	%	61	60	60	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	4	6	4
Sodium	ppm	3	2	3	2
Potassium	ppm	0	<1	0	0



WEAR METALS

Iron	ppm	10	6	11	12
Copper	ppm	<1	1	1	0
Lead	ppm	0	1	0	0
Tin	ppm	<1	<1	1	0
Aluminum	ppm	3	4	4	1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	40	39	39	42
Nickel	ppm	0	1	0	0
Titanium	ppm	<1	<1	0	0
Silver	ppm	0	<1	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	<1	0	0



ADDITIVES

Calcium	ppm	1637	1607	1631	1797
Magnesium	ppm	473	547	514	568
Zinc	ppm	976	1137	1110	1286
Phosphorus	ppm	860	939	941	995
Barium	ppm	0	0	0	0
Boron	ppm	34	21	30	36

Depot: SAIBIR
Unique No: 10990955
Signed: Sean Felton
Report Date: 24 Apr 2024

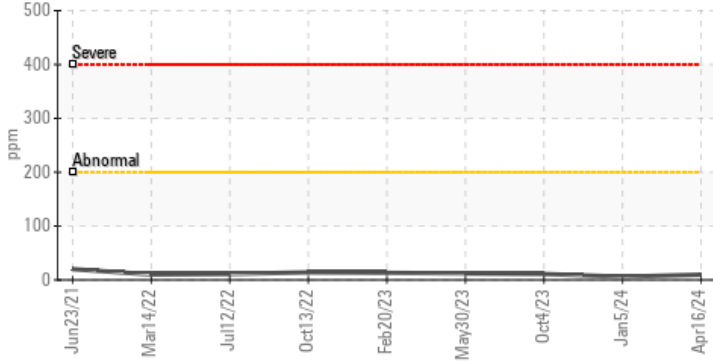


CONSTRUCTION EQUIPMENT

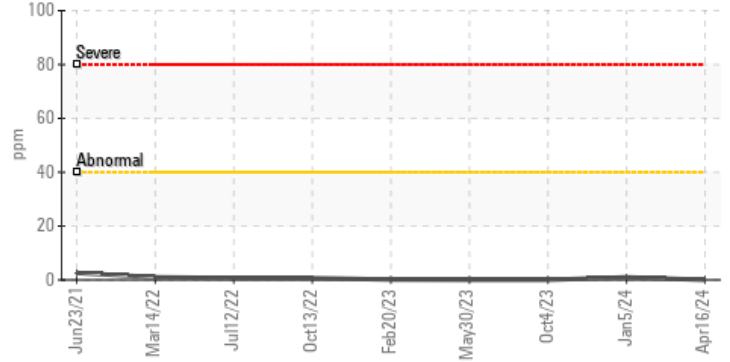


GRAPHS

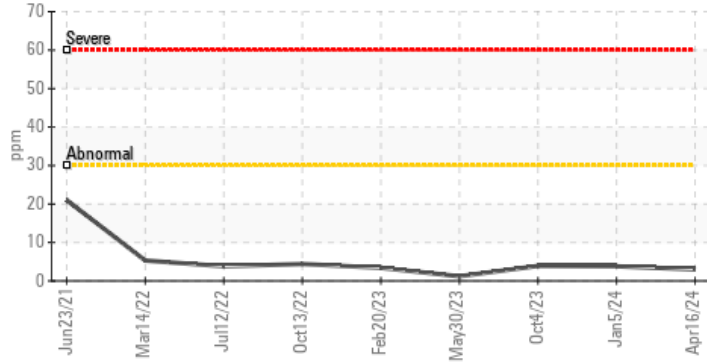
Iron (ppm)



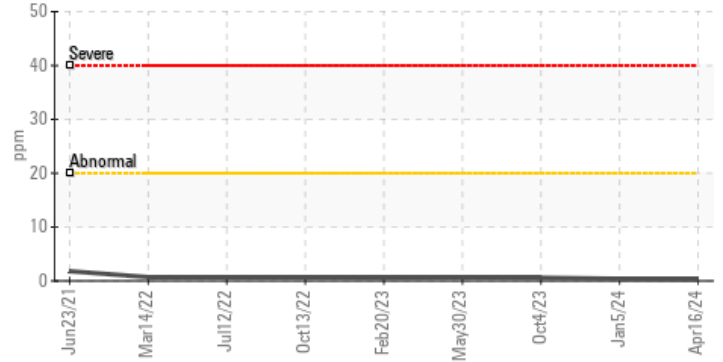
Lead (ppm)



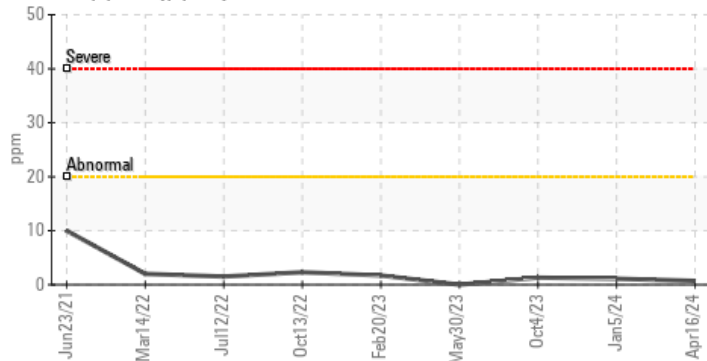
Aluminum (ppm)



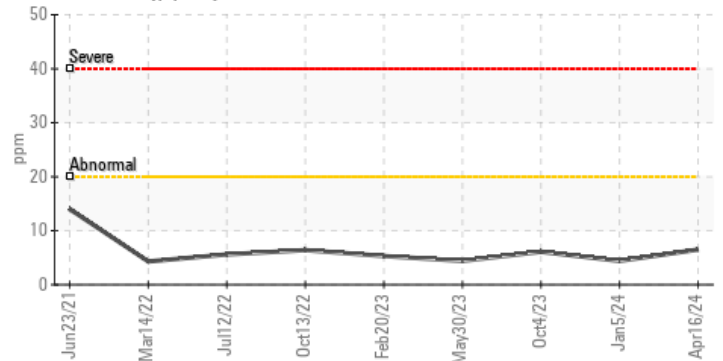
Chromium (ppm)



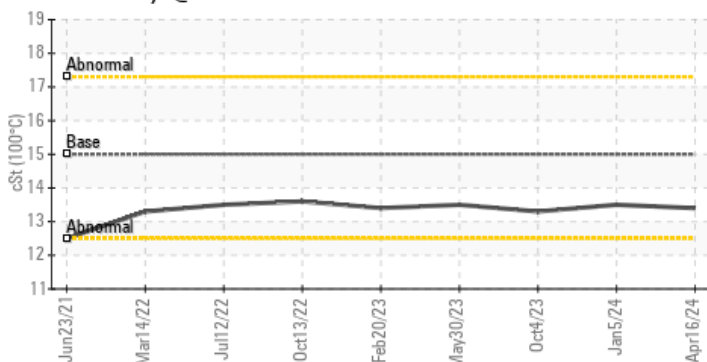
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

