



CONSTRUCTION EQUIPMENT

SWO-071204 VOLVO A40G 340716 - DIESEL ENGINE



Sample No: VCP449761
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWO-071204



SAMPLE INFORMATION

Sample Number	VCP449761	VCP428966	VCP419111	VCP402276
Sample Date	18 Apr 2024	05 Dec 2023	30 Aug 2023	26 Apr 2023
Machine Hours	9946	9440	8929	8381
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	12.1	12.3	12.1	12.3
Base Number (BN)	mg KOH/g	6.3	7.8	8.9	8.3
Oxidation (PA)	%	61	70	80	75

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 %	%	0.1	0.2	0.1	0.2
Nitration (PA)	%	77	74	67	58
Sulfation (PA)	%	50	54	59	54
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	6	9	6
Sodium	ppm	2	1	3	2
Potassium	ppm	0	2	2	<1



WEAR METALS

Iron	ppm	4	7	6	6
Copper	ppm	<1	<1	1	0
Lead	ppm	0	<1	<1	0
Tin	ppm	<1	<1	<1	0
Aluminum	ppm	3	3	2	1
Chromium	ppm	<1	<1	<1	0
Molybdenum	ppm	106	85	41	41
Nickel	ppm	0	1	<1	0
Titanium	ppm	<1	<1	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1292	1398	1736	1584
Magnesium	ppm	588	565	567	493
Zinc	ppm	757	871	1214	1063
Phosphorus	ppm	689	700	953	864
Barium	ppm	0	11	0	0
Boron	ppm	110	66	25	55

Depot: SAIBIR
Unique No: 10990958
Signed: Sean Felton
Report Date: 24 Apr 2024

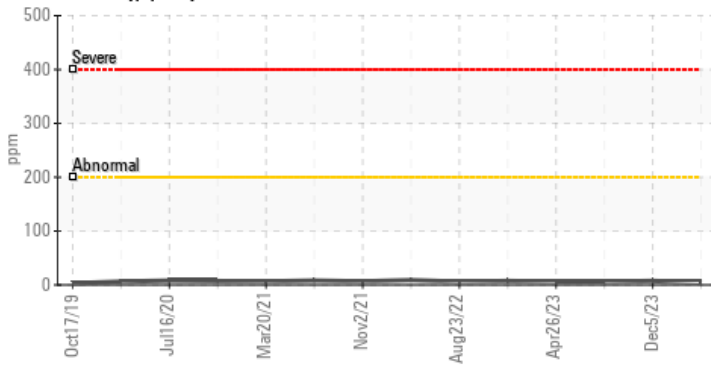


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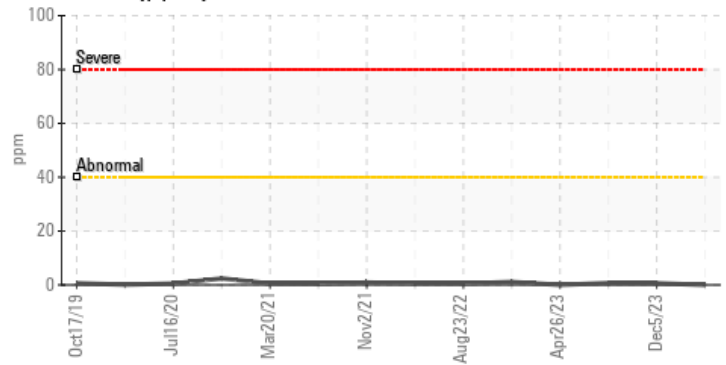


GRAPHS

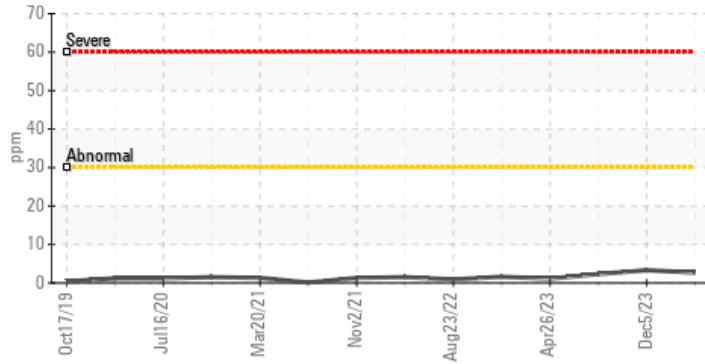
Iron (ppm)



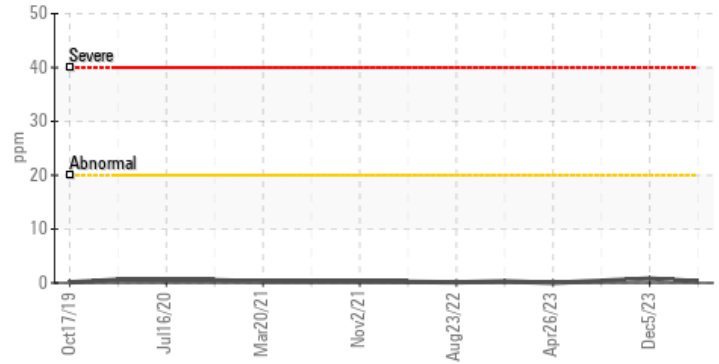
Lead (ppm)



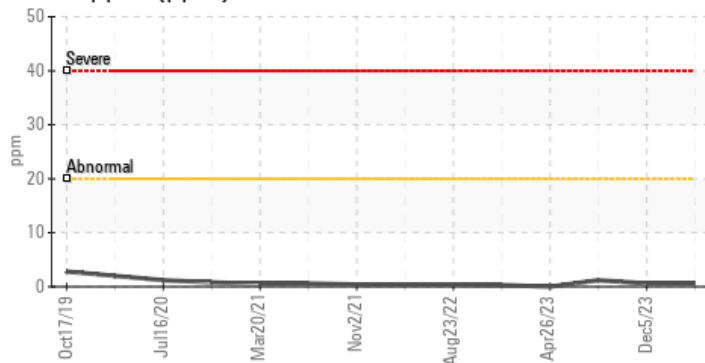
Aluminum (ppm)



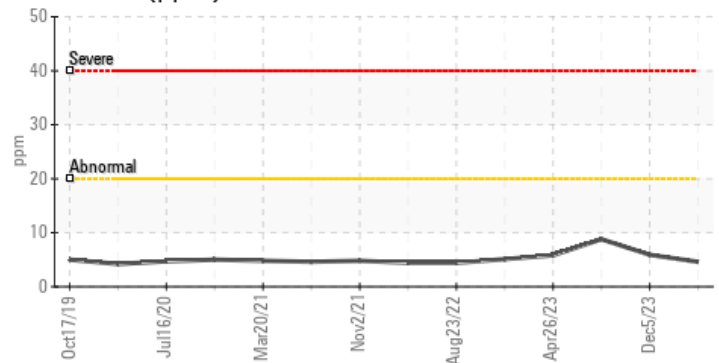
Chromium (ppm)



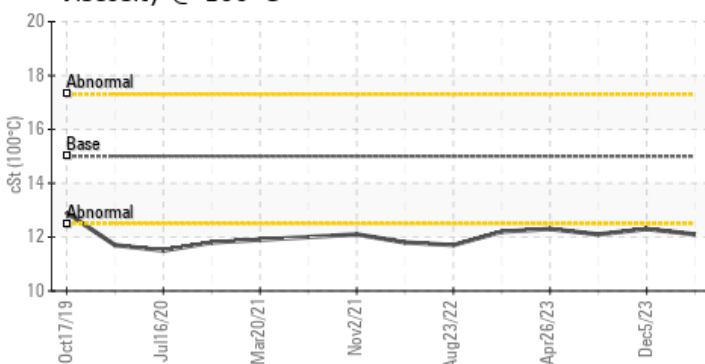
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

