



CONSTRUCTION EQUIPMENT

SPM703624 STAVOLA AG VOLVO A30G 753419 - DIESEL ENGINE



Sample No: VCP413075
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SPM703624 STAVOLA AG



SAMPLE INFORMATION

Sample Number	VCP413075	VCP395912	VCP286322	---
Sample Date	06 May 2024	19 Jan 2023	21 Oct 2020	---
Machine Hours	1590	1019	464	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	ABNORMAL	ABNORMAL	NORMAL	---

FIVE STONES MINE
MORNING STAR FARM RD
CANAL POINT, FL
US 33430
Contact: Service Manager



OIL CONDITION

Visc @ 100°C	cSt	13.1	13.2	13.9	---
Base Number (BN)	mg KOH/g	9.5	8.9	---	---
Oxidation (PA)	%	69	68	57	---

T:
F:

Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. The aluminum level has decreased, but is still abnormal. All other 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

Water	%	NEG	NEG	NEG	---
Soot %	%	0.4	0.5	0.2	---
Nitration (PA)	%	65	72	46	---
Sulfation (PA)	%	55	55	52	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	8	22	15	---
Sodium	ppm	2	0	3	---
Potassium	ppm	<1	3	2	---



WEAR METALS

Iron	ppm	50	136	32	---
Copper	ppm	7	11	8	---
Lead	ppm	<1	2	<1	---
Tin	ppm	<1	4	2	---
Aluminum	ppm	16	31	11	---
Chromium	ppm	2	4	2	---
Molybdenum	ppm	52	31	25	---
Nickel	ppm	1	8	7	---
Titanium	ppm	0	<1	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	1	4	3	---
Vanadium	ppm	0	<1	0	---



ADDITIVES

Calcium	ppm	1617	1912	1843	---
Magnesium	ppm	634	432	367	---
Zinc	ppm	1213	1290	1163	---
Phosphorus	ppm	1020	999	1021	---
Barium	ppm	0	<1	0	---
Boron	ppm	14	11	5	---

Depot: FIVCAN
Unique No: 11021132
Signed: Don Baldrige
Report Date: 13 May 2024

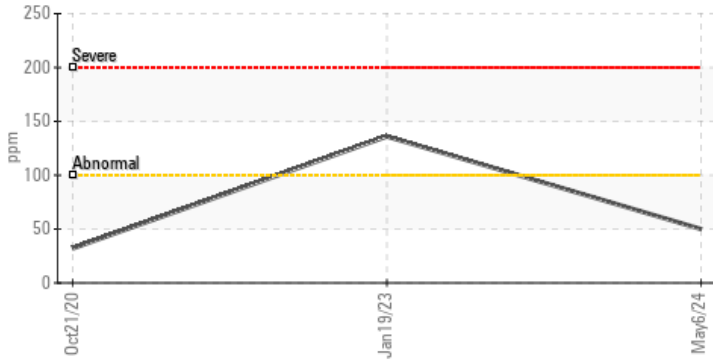


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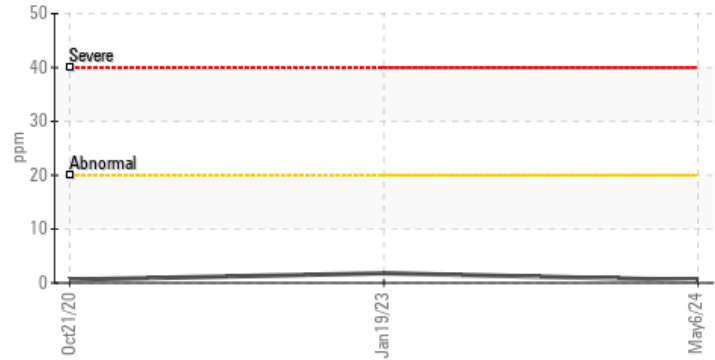


GRAPHS

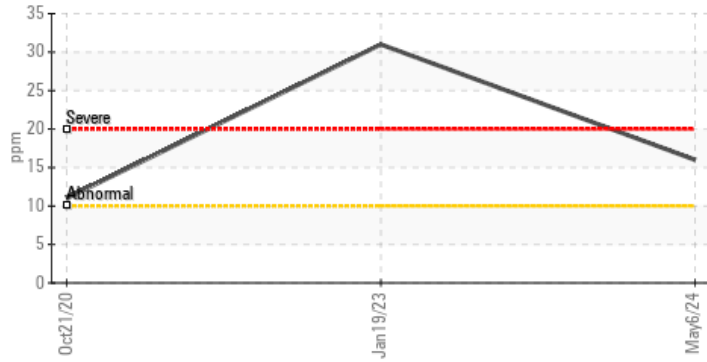
Iron (ppm)



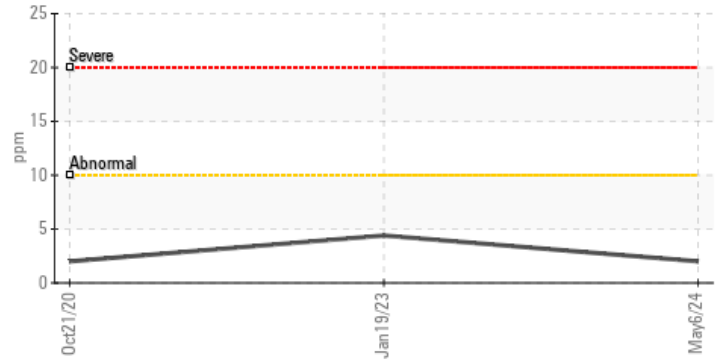
Lead (ppm)



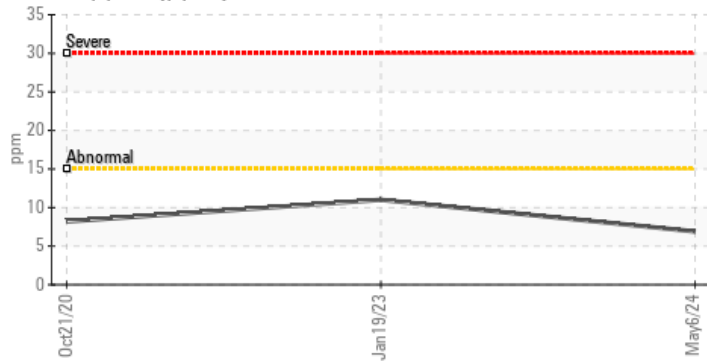
Aluminum (ppm)



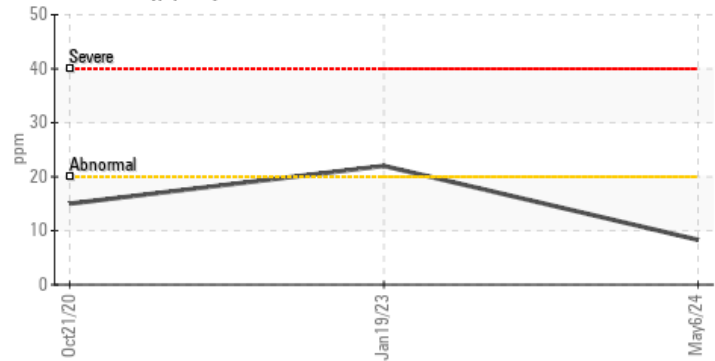
Chromium (ppm)



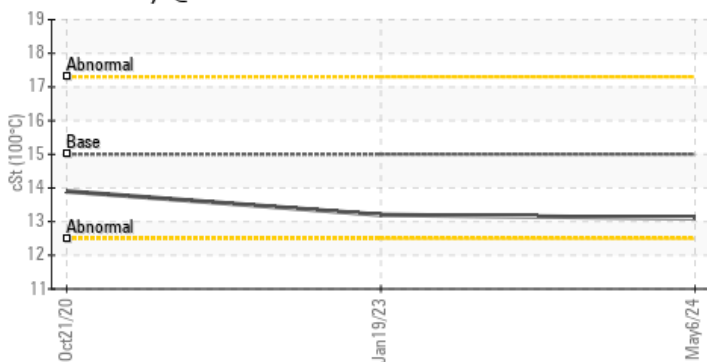
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

