



CONSTRUCTION EQUIPMENT

SPM661103-10 VOLVO A40G 342354 - DIESEL ENGINE



Sample No: VCP437733
Oil Type: DIESEL ENGINE OIL SAE 30
Job No: SPM661103-10



ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC
8418 PALM RIVER ROAD
TAMPA, FL
US 33619
Contact: KENNY HANEY
khaney@flaglerce.com
T: (813)630-0077
F: (813)630-2233



SAMPLE INFORMATION

Sample Number	VCP437733	VCP308884	VCP302324	VCP259503
Sample Date	27 Jan 2024	18 Jun 2021	12 Jan 2021	18 Jul 2020
Machine Hours	6495	3481	2991	2541
Oil Hours	0	0	0	0
Oil Changed	N/A	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 100°C	cSt	12.3	12.5	12.5	12.3
Base Number (BN)	mg KOH/g	8.6	---	---	---
Oxidation (PA)	%	80	84	75	82



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.4	0.2	0.2	0.2
Nitration (PA)	%	82	64	67	67
Sulfation (PA)	%	61	66	60	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	4	6	7
Sodium	ppm	2	3	3	4
Potassium	ppm	0	<1	8	<1



WEAR METALS

Iron	ppm	14	8	16	9
Copper	ppm	4	2	6	8
Lead	ppm	0	<1	0	0
Tin	ppm	<1	<1	0	0
Aluminum	ppm	6	0	2	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	50	45	36	44
Nickel	ppm	<1	<1	1	2
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1610	1699	1752	1841
Magnesium	ppm	499	501	525	544
Zinc	ppm	1116	1093	1070	1161
Phosphorus	ppm	950	944	942	1002
Barium	ppm	<1	0	0	0
Boron	ppm	22	68	36	34

Diagnosis

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 30. Please confirm.

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.

Depot: VOLVO0093
Unique No: 10875362
Signed: Wes Davis
Report Date: 14 Feb 2024

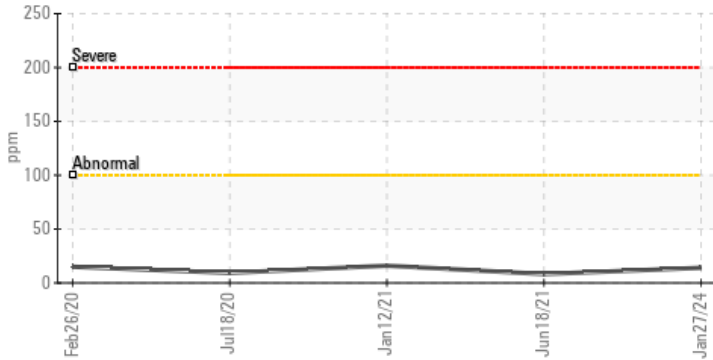


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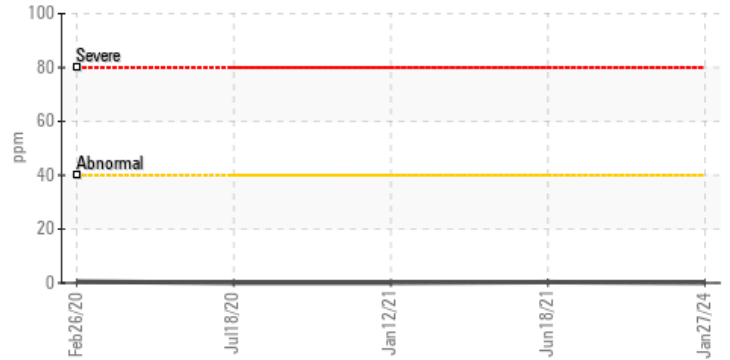


GRAPHS

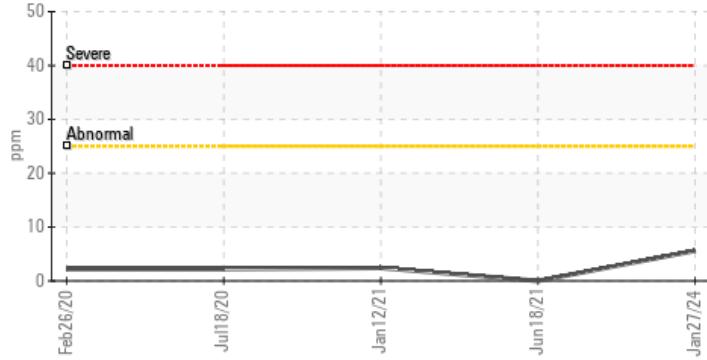
Iron (ppm)



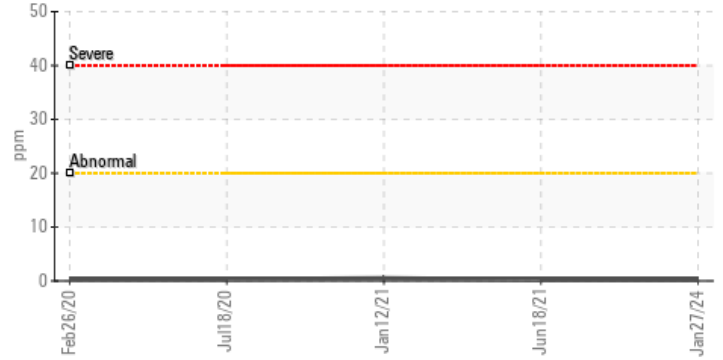
Lead (ppm)



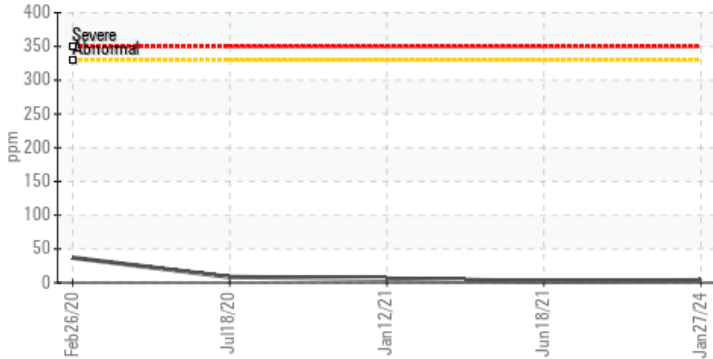
Aluminum (ppm)



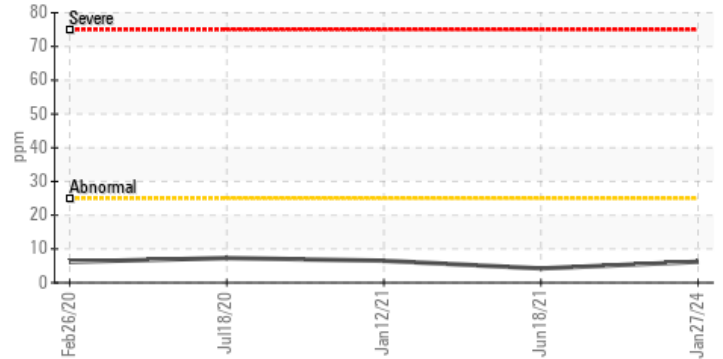
Chromium (ppm)



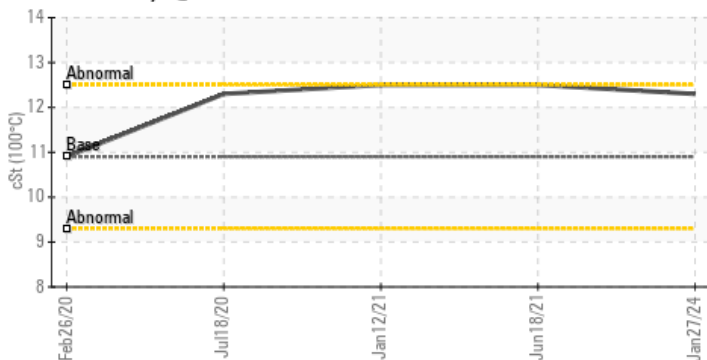
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

