



# CONSTRUCTION EQUIPMENT

SWA545307 VOLVO A30 752265 - DIESEL ENGINE



**Sample No:** VCP454981  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** SWA545307



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	VCP454981	VCP351195	---	---
Sample Date	29 Apr 2024	15 Jan 2022	---	---
Machine Hours	4703	872	---	---
Oil Hours	216	1500	---	---
Oil Changed	Not Chngd	Changed	---	---
Sample Status	ATTENTION	ABNORMAL	---	---



## OIL CONDITION

Visc @ 100°C	cSt	12.3	10.4	---	---
Base Number (BN)	mg KOH/g	9.0	7.9	---	---
Oxidation (PA)	%	77	71	---	---



## CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0.3	0.4	---	---
Nitration (PA)	%	74	87	---	---
Sulfation (PA)	%	60	60	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	0.2	0.2	---	---
Silicon	ppm	4	30	---	---
Sodium	ppm	3	3	---	---
Potassium	ppm	<1	5	---	---



## WEAR METALS

Iron	ppm	25	33	---	---
Copper	ppm	<1	373	---	---
Lead	ppm	0	4	---	---
Tin	ppm	2	3	---	---
Aluminum	ppm	2	2	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	41	55	---	---
Nickel	ppm	2	2	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	0	2	---	---
Manganese	ppm	1	4	---	---
Vanadium	ppm	<1	0	---	---



## ADDITIVES

Calcium	ppm	1606	1166	---	---
Magnesium	ppm	548	882	---	---
Zinc	ppm	1041	1103	---	---
Phosphorus	ppm	924	962	---	---
Barium	ppm	0	0	---	---
Boron	ppm	36	4	---	---

## Diagnosis

Resample at the next service interval to monitor. (engine knock, engine blow by).All component wear rates are normal. No abnormal wear detected. Fuel content negligible. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

**Depot:** VOLVO0093  
**Unique No:** 11008795  
**Signed:** Don Baldrige  
**Report Date:** 08 May 2024

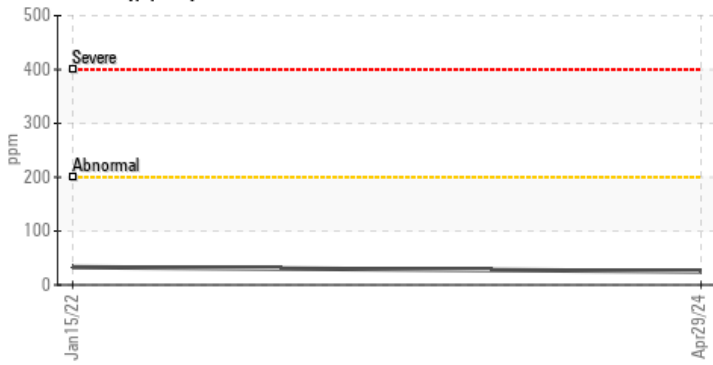


# CONSTRUCTION EQUIPMENT



## GRAPHS

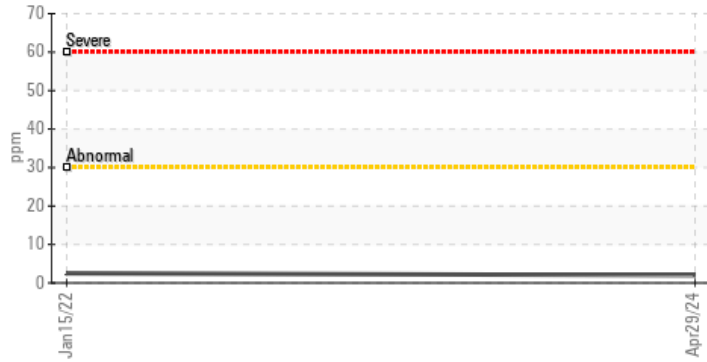
### Iron (ppm)



### Lead (ppm)



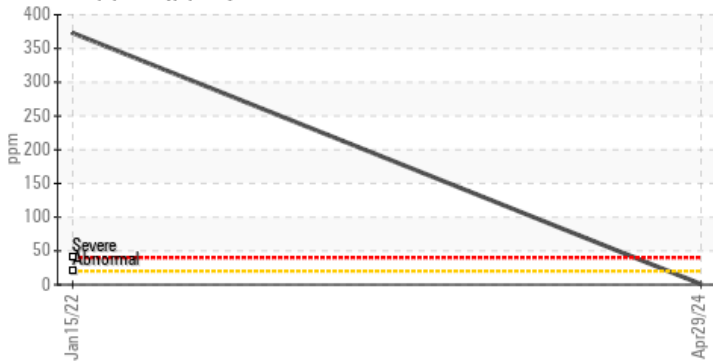
### Aluminum (ppm)



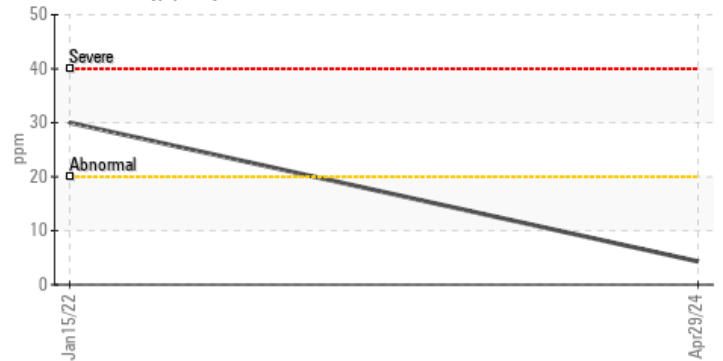
### Chromium (ppm)



### Copper (ppm)



### Silicon (ppm)



### ● Viscosity @ 100°C



### Base Number

