



# CONSTRUCTION EQUIPMENT

X18601 BIRDSONG VOLVO A40G 752063 - DIESEL ENGINE



**Sample No:** VCP445339  
**Oil Type:** SHELL ROTELLA T 15W40  
**Job No:** X18601 BIRDSONG



## SAMPLE INFORMATION

Sample Number	VCP445339	VCP443235	---	---
Sample Date	23 May 2024	20 Feb 2024	---	---
Machine Hours	1541	645	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ATTENTION	NORMAL	---	---

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## OIL CONDITION

Visc @ 100°C	cSt	12.3	12.1	---	---
Base Number (BN)	mg KOH/g	9.7	9.1	---	---
Oxidation (PA)	%	82	76	---	---

## Diagnosis

Oil and filter change at the time of sampling has been noted. 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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



## CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0.2	0.1	---	---
Nitration (PA)	%	61	58	---	---
Sulfation (PA)	%	62	61	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	0.4	---	---
Silicon	ppm	7	8	---	---
Sodium	ppm	<1	3	---	---
Potassium	ppm	2	2	---	---



## WEAR METALS

Iron	ppm	10	9	---	---
Copper	ppm	9	50	---	---
Lead	ppm	<1	<1	---	---
Tin	ppm	1	1	---	---
Aluminum	ppm	2	3	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	41	44	---	---
Nickel	ppm	4	2	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	1	---	---
Vanadium	ppm	0	<1	---	---



## ADDITIVES

Calcium	ppm	1642	1486	---	---
Magnesium	ppm	470	381	---	---
Zinc	ppm	1080	976	---	---
Phosphorus	ppm	982	782	---	---
Barium	ppm	1	34	---	---
Boron	ppm	32	41	---	---

**Depot:** VOLVO8771  
**Unique No:** 11057074  
**Signed:** Don Baldrige  
**Report Date:** 31 May 2024

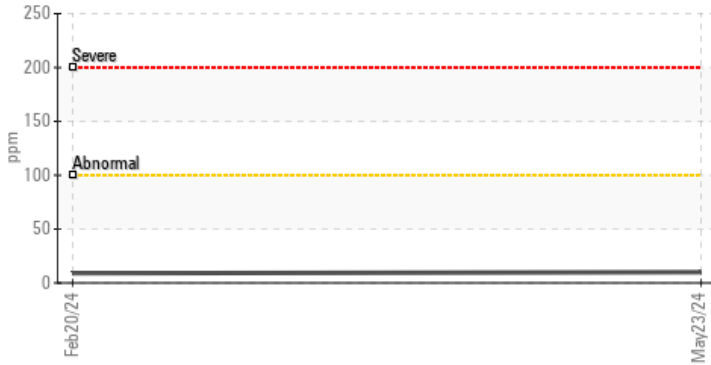


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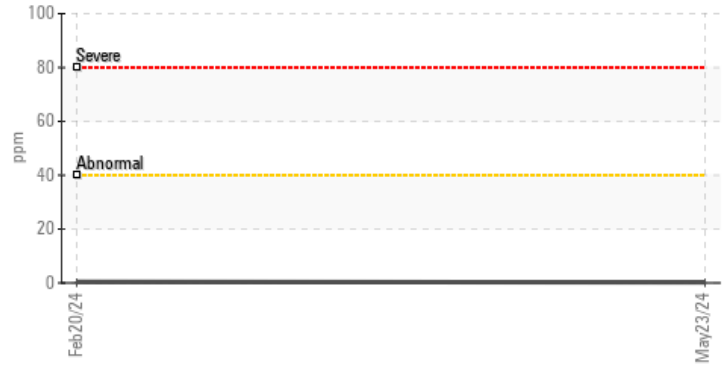


## GRAPHS

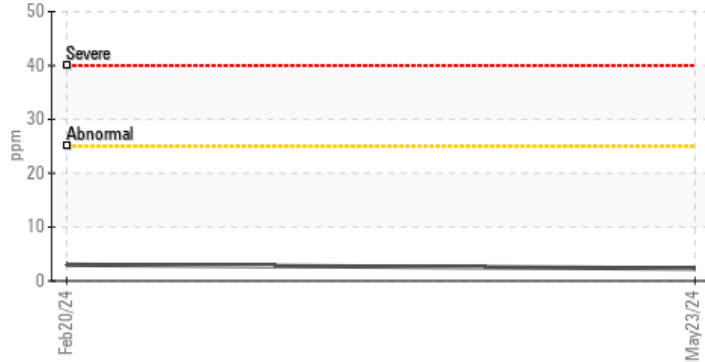
### Iron (ppm)



### Lead (ppm)



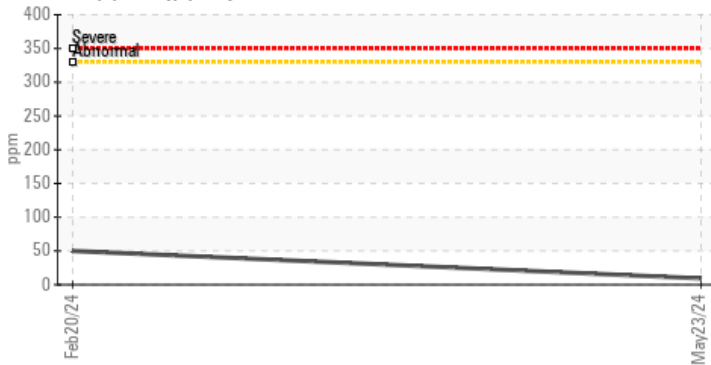
### Aluminum (ppm)



### Chromium (ppm)



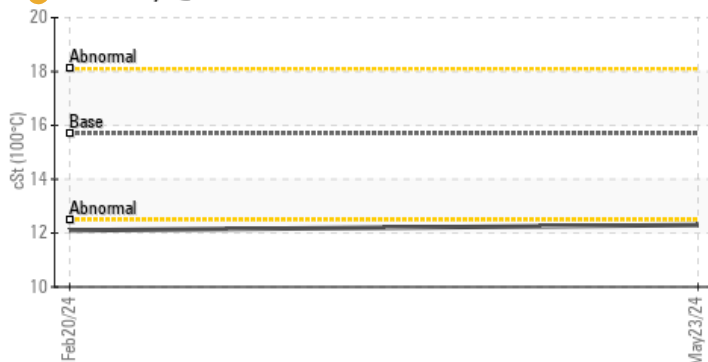
### Copper (ppm)



### Silicon (ppm)



### ● Viscosity @ 100°C



### Base Number

