



# CONSTRUCTION EQUIPMENT

## 2662 VOLVO L150H 4487 - DIESEL ENGINE



**Sample No:** VCP312839  
**Oil Type:** MOBIL 15W40  
**Job No:** 2662



### SAMPLE INFORMATION

Sample Number	VCP312839	VCP331584	VCP312535	VCP401927
Sample Date	18 Dec 2023	09 Nov 2023	02 Oct 2023	15 Aug 2023
Machine Hours	17985	17740	17506	17210
Oil Hours	245	234	296	259
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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### OIL CONDITION

Visc @ 100°C	cSt	13.1	13.2	12.6	12.6
Base Number (BN)	mg KOH/g	6.6	7.1	9.2	10.3
Oxidation (PA)	%	59	62	76	80

### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	66	64	50	48
Sulfation (PA)	%	50	51	57	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	4	3	4
Sodium	ppm	<1	2	2	3
Potassium	ppm	2	<1	<1	0

### WEAR METALS

Iron	ppm	<1	0	2	2
Copper	ppm	0	<1	0	0
Lead	ppm	0	0	<1	0
Tin	ppm	0	0	0	0
Aluminum	ppm	3	2	1	<1
Chromium	ppm	<1	0	<1	0
Molybdenum	ppm	116	112	47	39
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	0	<1
Vanadium	ppm	0	<1	0	<1

### ADDITIVES

Calcium	ppm	1187	1339	1550	1710
Magnesium	ppm	627	691	498	520
Zinc	ppm	813	931	876	881
Phosphorus	ppm	762	715	758	754
Barium	ppm	0	0	0	0
Boron	ppm	127	124	53	58

### 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.

**Depot:** SCHGRE  
**Unique No:** 10806383  
**Signed:** Don Baldrige  
**Report Date:** 28 Dec 2023

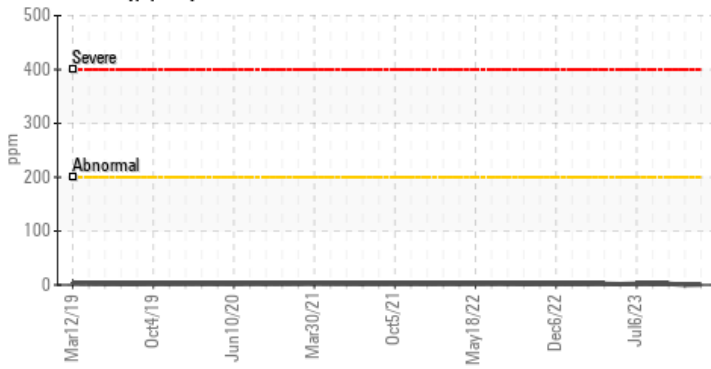


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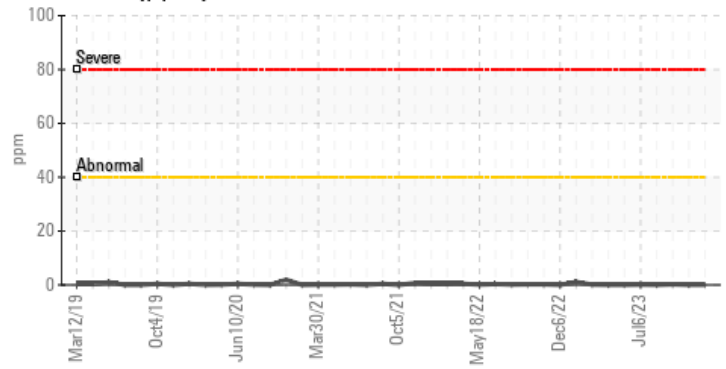


## GRAPHS

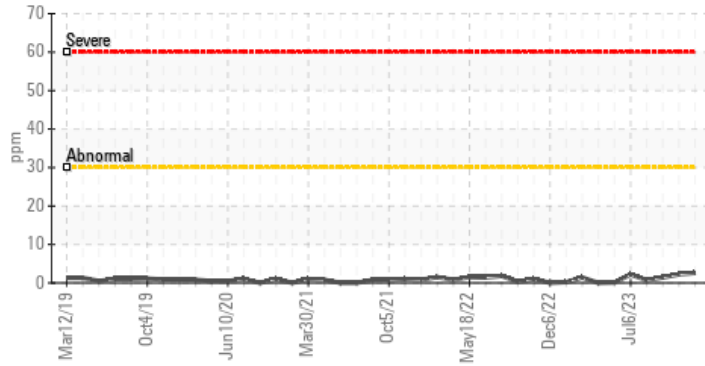
### Iron (ppm)



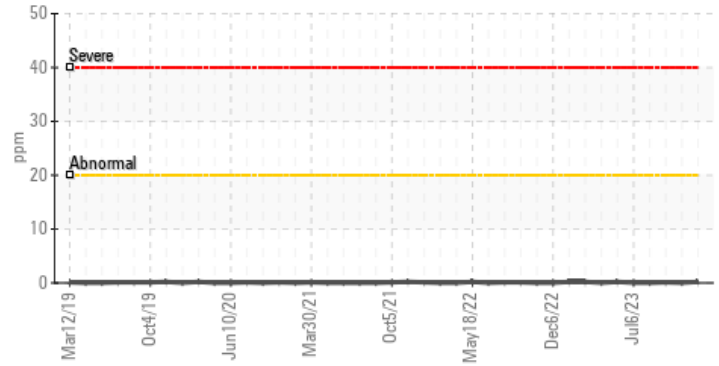
### Lead (ppm)



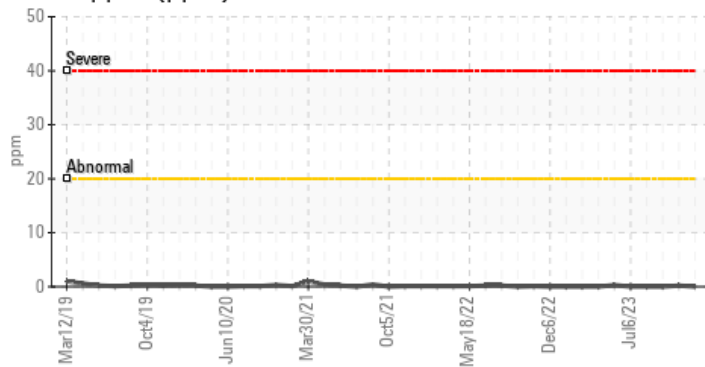
### Aluminum (ppm)



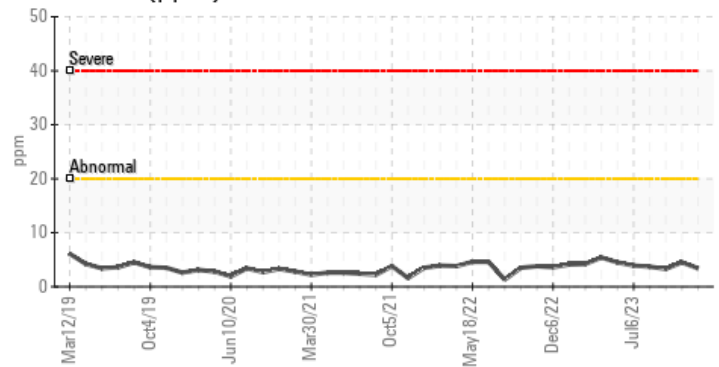
### Chromium (ppm)



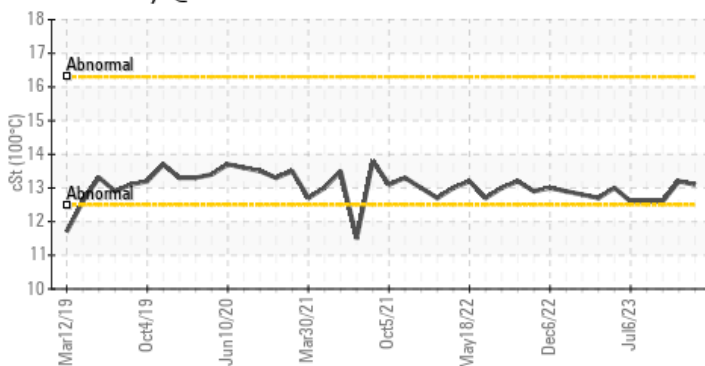
### Copper (ppm)



### Silicon (ppm)



### Viscosity @ 100°C



### Base Number

