



# CONSTRUCTION EQUIPMENT

74852 LAKE CONWAY TAKEUCHI TB225 122600181 - DIESEL ENGINE



**Sample No:** VCP446630  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:** 74852 LAKE CONWAY



## SAMPLE INFORMATION

Sample Number	<b>VCP446630</b>	VCP445675	VCP389614	VCP340453
Sample Date	<b>19 Feb 2024</b>	18 Feb 2024	21 Oct 2022	21 Jul 2022
Machine Hours	<b>907</b>	811	366	269
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	ATTENTION

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## OIL CONDITION

Visc @ 100°C	cSt	<b>14.0</b>	13.1	13.1	10.8
Base Number (BN)	mg KOH/g	<b>7.8</b>	6.7	11.9	13.3
Oxidation (PA)	%	<b>60</b>	54	84	51

## Diagnosis

Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. 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	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.7</b>	0.4	0.2	0.3
Nitration (PA)	%	<b>74</b>	73	58	64
Sulfation (PA)	%	<b>56</b>	53	64	54
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	0.3
Silicon	ppm	<b>10</b>	9	17	69
Sodium	ppm	<b>4</b>	4	4	21
Potassium	ppm	<b>0</b>	0	<1	3



## WEAR METALS

Iron	ppm	<b>33</b>	51	22	66
Copper	ppm	<b>6</b>	2	2	16
Lead	ppm	<b>0</b>	0	0	1
Tin	ppm	<b>&lt;1</b>	<1	<1	<1
Aluminum	ppm	<b>4</b>	2	5	10
Chromium	ppm	<b>&lt;1</b>	<1	<1	1
Molybdenum	ppm	<b>15</b>	12	45	103
Nickel	ppm	<b>&lt;1</b>	<1	<1	0
Titanium	ppm	<b>0</b>	0	0	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	2
Vanadium	ppm	<b>0</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>2274</b>	2224	1812	3882
Magnesium	ppm	<b>120</b>	84	472	131
Zinc	ppm	<b>1008</b>	972	1091	1388
Phosphorus	ppm	<b>876</b>	851	894	1148
Barium	ppm	<b>0</b>	0	0	14
Boron	ppm	<b>19</b>	11	54	59

**Depot:** VOLVO0093  
**Unique No:** 10896441  
**Signed:** Wes Davis  
**Report Date:** 25 Feb 2024

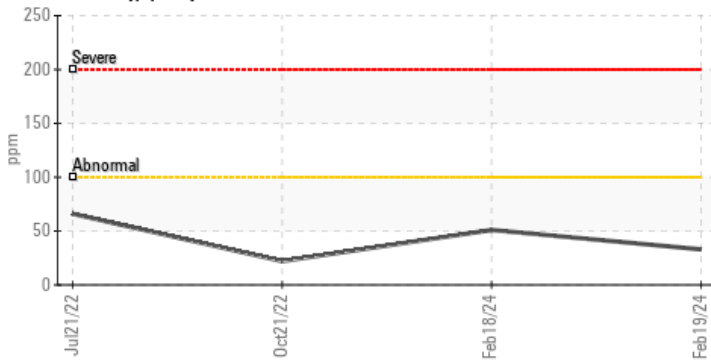


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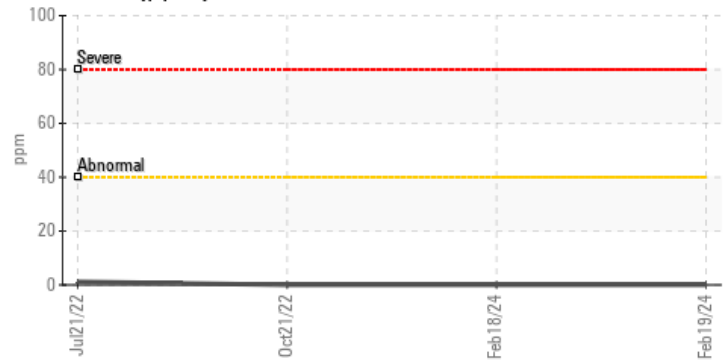


## GRAPHS

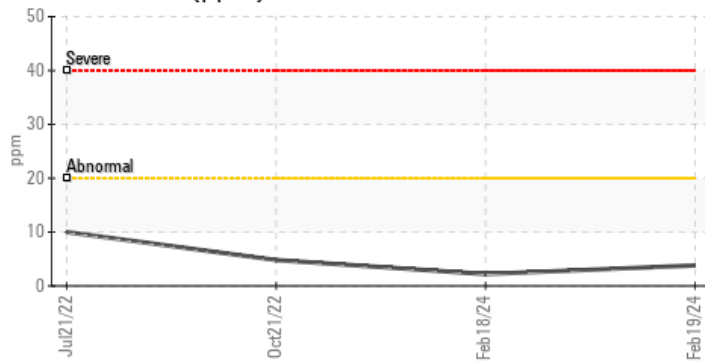
### Iron (ppm)



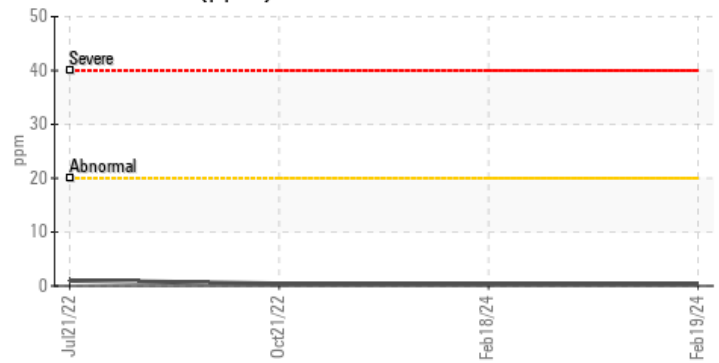
### Lead (ppm)



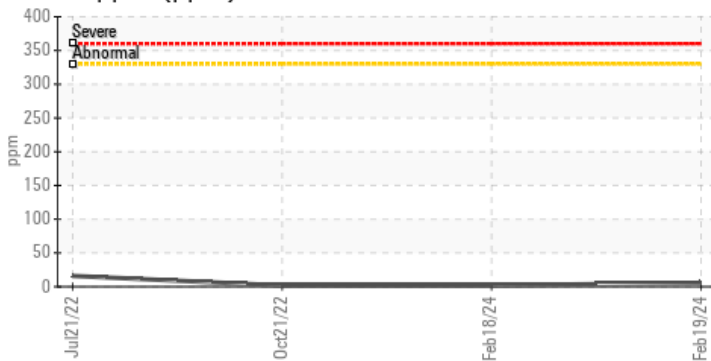
### Aluminum (ppm)



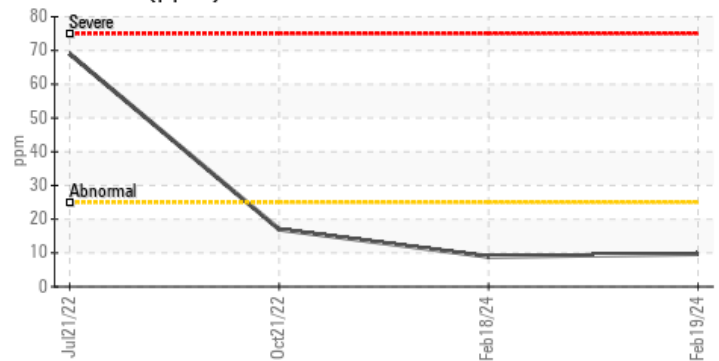
### Chromium (ppm)



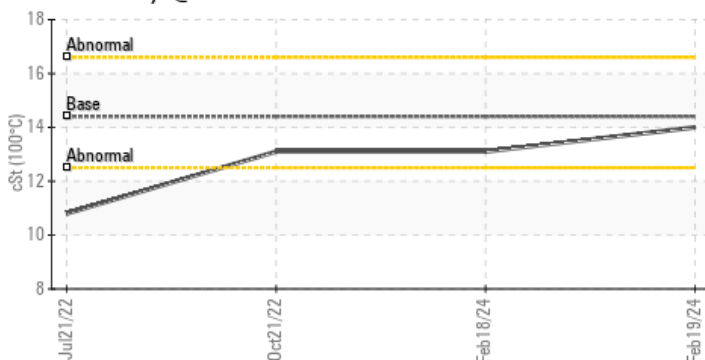
### Copper (ppm)



### Silicon (ppm)



### Viscosity @ 100°C



### Base Number

