



# CONSTRUCTION EQUIPMENT

SWO733505 LEMONT FUCHS MHL340F2 340410/5529 - DIESEL ENGINE



**Sample No:** VCP320728  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:** SWO733505 LEMONT



## SAMPLE INFORMATION

Sample Number	<b>VCP320728</b>	VCP306076	VCP292349	VCP05027104
Sample Date	<b>11 Oct 2021</b>	30 Mar 2021	17 Nov 2020	17 Jul 2020
Machine Hours	<b>4144</b>	3470	2791	2006
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	N/A	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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## OIL CONDITION

Visc @ 100°C	cSt	<b>13.8</b>	13.48	12.8	12.7
Oxidation (PA)	%	<b>74</b>	80	77	77



## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	0.106
Soot %	%	<b>0.8</b>	1.1	0.8	0.7
Nitration (PA)	%	<b>85</b>	91	83	90
Sulfation (PA)	%	<b>59</b>	66	62	64
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>7</b>	4	7	7
Sodium	ppm	<b>3</b>	2	0	2
Potassium	ppm	<b>12</b>	1	<1	6

## 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 condition of the oil is acceptable for the time in service.



## WEAR METALS

Iron	ppm	<b>22</b>	28	27	30
Copper	ppm	<b>9</b>	6	10	10
Lead	ppm	<b>2</b>	<1	1	<1
Tin	ppm	<b>0</b>	1	2	0
Aluminum	ppm	<b>21</b>	26	14	16
Chromium	ppm	<b>2</b>	2	2	2
Molybdenum	ppm	<b>67</b>	80	80	68
Nickel	ppm	<b>&lt;1</b>	1	<1	2
Titanium	ppm	<b>&lt;1</b>	<1	<1	<1
Silver	ppm	<b>0</b>	0	<1	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>1344</b>	1213	1369	1256
Magnesium	ppm	<b>1043</b>	906	913	876
Zinc	ppm	<b>1354</b>	1201	1189	987
Phosphorus	ppm	<b>1107</b>	972	1032	852
Barium	ppm	<b>0</b>	<1	0	<1
Boron	ppm	<b>12</b>	62	38	35

**Depot:** VOLVO8885  
**Unique No:** 9710034  
**Signed:** Jonathan Hester  
**Report Date:** 25 Oct 2021

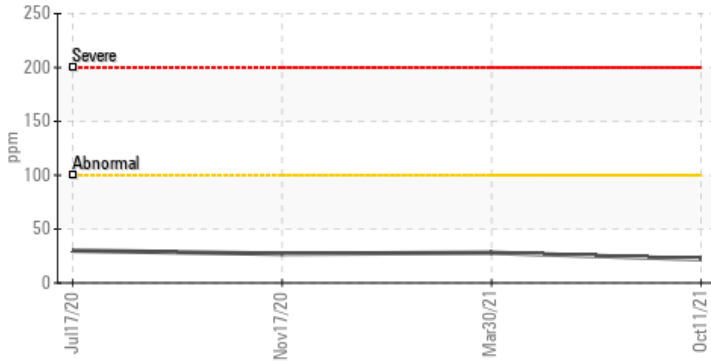


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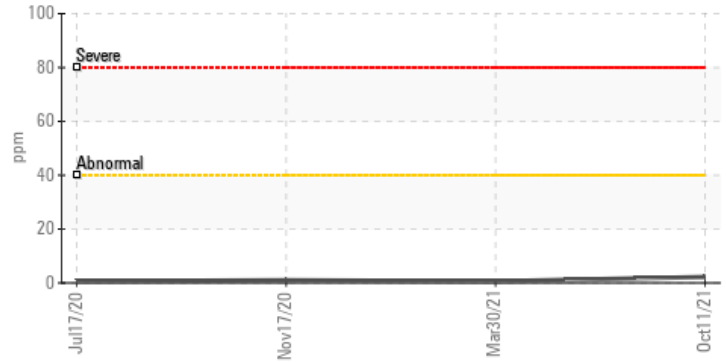


## GRAPHS

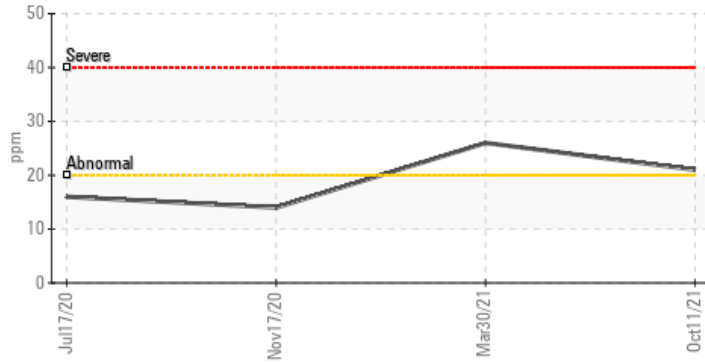
### Iron (ppm)



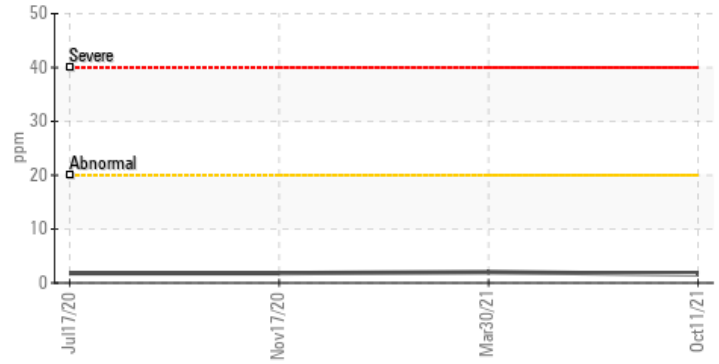
### Lead (ppm)



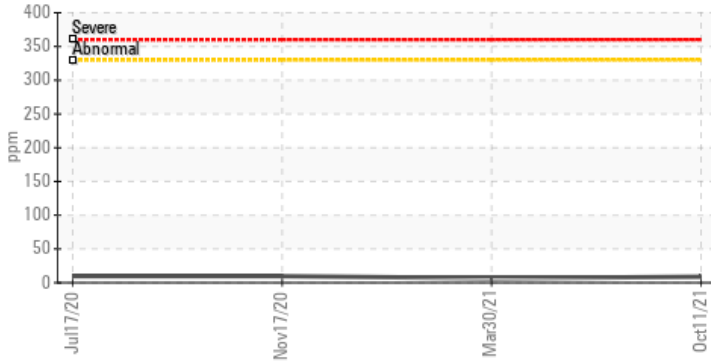
### Aluminum (ppm)



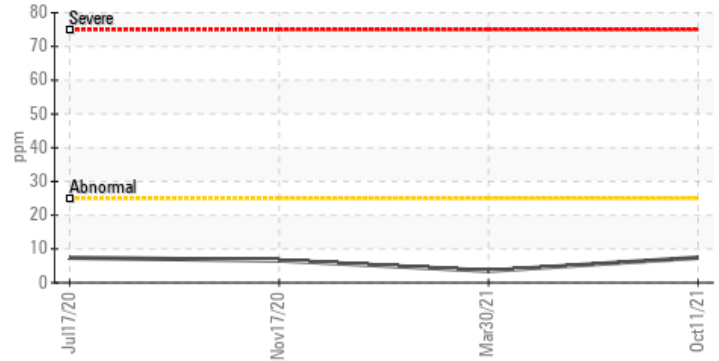
### Chromium (ppm)



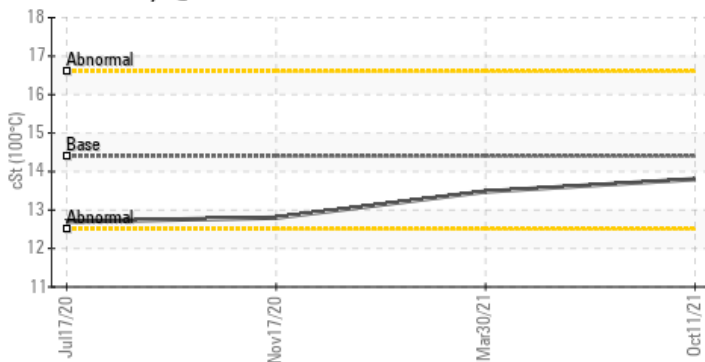
### Copper (ppm)



### Silicon (ppm)



### Viscosity @ 100°C



### Soot %

