



# CONSTRUCTION EQUIPMENT

M0700016 FORD F750 8399 - DIESEL ENGINE



**Sample No:** VCP338042  
**Oil Type:** MOBIL 15W40  
**Job No:** M07000016



## SAMPLE INFORMATION

Sample Number	<b>VCP338042</b>	VCP407789	VCP327842	VCP367624
Sample Date	<b>18 Aug 2023</b>	09 Aug 2023	07 Apr 2023	27 Jan 2023
Machine Hours	<b>11431</b>	11386	11130	5000
Oil Hours	<b>50</b>	0	500	500
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	ABNORMAL	NORMAL	NORMAL

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## OIL CONDITION

Visc @ 100°C	cSt	<b>13.9</b>	13.9	13.9	13.6
Base Number (BN)	mg KOH/g	<b>8.4</b>	8.2	7.5	8.6
Oxidation (PA)	%	<b>62</b>	77	76	72



## CONTAMINATION

Soot %	%	<b>0.2</b>	0.9	0.6	0.3
Nitration (PA)	%	<b>58</b>	97	87	79
Sulfation (PA)	%	<b>52</b>	59	54	55
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>12</b>	32	6	4
Sodium	ppm	<b>9</b>	39	11	11
Potassium	ppm	<b>14</b>	56	15	11



## WEAR METALS

Iron	ppm	<b>11</b>	45	19	12
Copper	ppm	<b>&lt;1</b>	3	1	<1
Lead	ppm	<b>&lt;1</b>	<1	0	0
Tin	ppm	<b>0</b>	<1	0	0
Aluminum	ppm	<b>2</b>	11	4	2
Chromium	ppm	<b>&lt;1</b>	2	<1	<1
Molybdenum	ppm	<b>52</b>	60	51	51
Nickel	ppm	<b>0</b>	<1	0	0
Titanium	ppm	<b>&lt;1</b>	<1	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	1	<1	<1
Vanadium	ppm	<b>&lt;1</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>1326</b>	1351	1280	1130
Magnesium	ppm	<b>649</b>	720	797	738
Zinc	ppm	<b>893</b>	998	977	849
Phosphorus	ppm	<b>734</b>	811	777	696
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>46</b>	29	31	40

## 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:** VOLVO8882  
**Unique No:** 10616596  
**Signed:** Sean Felton  
**Report Date:** 24 Aug 2023

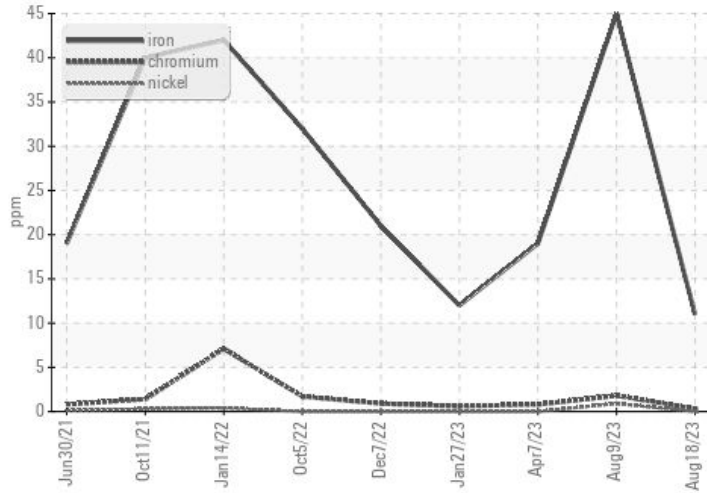


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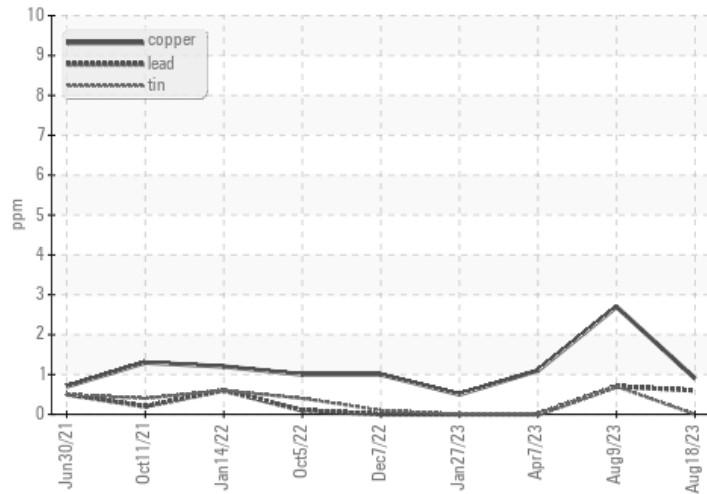


## GRAPHS

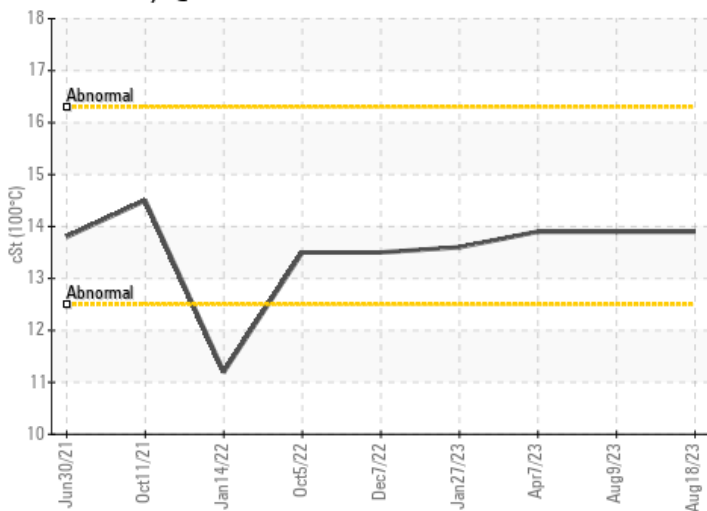
### Ferrous Alloys



### Non-ferrous Metals



### Viscosity @ 100°C



### Base Number

