



# CONSTRUCTION EQUIPMENT

M0700016 FORD F750 38399 - DIESEL ENGINE



**Sample No:** VCP407789  
**Oil Type:** MOBIL 15W40  
**Job No:** M0700016



## SAMPLE INFORMATION

Sample Number	<b>VCP407789</b>	VCP376336	VCP323960	---
Sample Date	<b>09 Aug 2023</b>	05 Oct 2022	11 Oct 2021	---
Machine Hours	<b>11386</b>	10430	9164	---
Oil Hours	<b>0</b>	0	500	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>ABNORMAL</b>	NORMAL	ABNORMAL	---

**McClung-Logan Virginia LLC- RICHMOND**  
 1345 MOUNTAIN ROAD  
 GLEN ALLEN, VA  
 US 23060  
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## OIL CONDITION

Visc @ 100°C	cSt	<b>13.9</b>	13.5	14.5	---
Base Number (BN)	mg KOH/g	<b>8.2</b>	8.3	---	---
Oxidation (PA)	%	<b>77</b>	89	87	---



## CONTAMINATION

Soot %	%	<b>0.9</b>	0.6	0.9	---
Nitration (PA)	%	<b>97</b>	106	102	---
Sulfation (PA)	%	<b>59</b>	63	62	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	---
Silicon	ppm	<b>▲ 32</b>	8	8	---
Sodium	ppm	<b>39</b>	17	30	---
Potassium	ppm	<b>▲ 56</b>	31	44	---



## WEAR METALS

Iron	ppm	<b>45</b>	32	40	---
Copper	ppm	<b>3</b>	1	1	---
Lead	ppm	<b>&lt;1</b>	<1	<1	---
Tin	ppm	<b>&lt;1</b>	<1	<1	---
Aluminum	ppm	<b>▲ 11</b>	8	11	---
Chromium	ppm	<b>2</b>	2	1	---
Molybdenum	ppm	<b>60</b>	65	52	---
Nickel	ppm	<b>&lt;1</b>	0	<1	---
Titanium	ppm	<b>&lt;1</b>	0	<1	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>1</b>	<1	<1	---
Vanadium	ppm	<b>0</b>	0	<1	---



## ADDITIVES

Calcium	ppm	<b>1351</b>	1229	1182	---
Magnesium	ppm	<b>720</b>	756	780	---
Zinc	ppm	<b>998</b>	854	893	---
Phosphorus	ppm	<b>811</b>	700	718	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>29</b>	24	22	---

## Diagnosis

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. Sodium and/or potassium levels are high. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. Test for glycol is negative. The BN result indicates that there is suitable alkalinity remaining in the oil.

**Depot:** VOLVO8882  
**Unique No:** 10602579  
**Signed:** Jonathan Hester  
**Report Date:** 14 Aug 2023



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## GRAPHS

