



# CONSTRUCTION EQUIPMENT

374218 16-8002 - DIESEL ENGINE



**Sample No:** VCP394759  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 374218



## SAMPLE INFORMATION

Sample Number	<b>VCP394759</b>	VCP394897	VCP352935	VCP352553
Sample Date	<b>04 Aug 2023</b>	21 May 2023	04 Dec 2022	25 Sep 2022
Machine Hours	<b>17470</b>	16959	16500	16000
Oil Hours	<b>500</b>	500	500	500
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**CRH CANADA GROUP INC.**  
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## OIL CONDITION

Visc @ 40°C	cSt	█ <b>109</b>	---	---	---
Visc @ 100°C	cSt	█ <b>14.9</b>	█ 14.8	█ 15.3	█ 14.3
Viscosity Index (VI)	Scale	█ <b>141</b>	---	---	---
Oxidation (PA)	%	█ <b>102</b>	101	37	97

## 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.

## CONTAMINATION

Soot %	%	█ <b>0.9</b>	█ 0.6	█ 0	█ 0.6
Nitration (PA)	%	█ <b>108</b>	102	42	94
Sulfation (PA)	%	█ <b>78</b>	73	45	73
Glycol	%	█ <b>NEG</b>	NEG	NEG	NEG
Fuel	%	█ <b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	█ <b>4</b>	█ 4	█ 4	█ 5
Sodium	ppm	█ <b>3</b>	█ 2	█ 2	█ 3
Potassium	ppm	█ <b>&lt;1</b>	█ 0	█ 0	█ 0

## WEAR METALS

Iron	ppm	█ <b>13</b>	█ 13	█ 13	█ 8
Copper	ppm	█ <b>&lt;1</b>	█ 1	█ <1	█ 1
Lead	ppm	█ <b>4</b>	█ 5	█ 6	█ 7
Tin	ppm	█ <b>&lt;1</b>	█ <1	█ <1	█ <1
Aluminum	ppm	█ <b>1</b>	█ 2	█ 3	█ 2
Chromium	ppm	█ <b>&lt;1</b>	█ <1	█ <1	█ <1
Molybdenum	ppm	█ <b>58</b>	█ 62	█ 60	█ 52
Nickel	ppm	█ <b>0</b>	█ <1	█ <1	█ <1
Titanium	ppm	█ <b>0</b>	<1	<1	<1
Silver	ppm	█ <b>0</b>	█ 0	█ 0	█ 0
Manganese	ppm	█ <b>&lt;1</b>	█ <1	█ <1	█ <1
Vanadium	ppm	█ <b>0</b>	█ 0	█ 0	█ 0

## ADDITIVES

Calcium	ppm	█ <b>1553</b>	█ 1606	█ 1535	█ 1580
Magnesium	ppm	█ <b>829</b>	█ 932	█ 901	█ 738
Zinc	ppm	█ <b>1269</b>	█ 1357	█ 1324	█ 1219
Phosphorus	ppm	█ <b>1140</b>	█ 1247	█ 1191	█ 1125
Barium	ppm	█ <b>0</b>	█ 0	█ 0	█ 0
Boron	ppm	█ <b>14</b>	█ 12	█ 12	█ 18

**Depot:** HOLCON  
**Unique No:** 5629945  
**Signed:** Kevin Marson  
**Report Date:** 21 Aug 2023



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## GRAPHS

