

[[385964]] 16-8901 - DIESEL ENGINE

Sample No: VCP380097

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

SAMPLE INFORMATION

Sample Number	VCP380097	VCP392216	VCP392355	VCP349667
Sample Date	10 Dec 2023	06 Aug 2023	23 Apr 2023	01 Jul 2022
Machine Hours	4500	4000	3462	2963
Oil Hours	500	500	500	500
Oil Changed	Not Changd	Not Changd	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

CRH CANADA GROUP INC.

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OIL CONDITION

Visc @ 100°C	cSt	12.4	12.6	12.5	12.7
Oxidation (PA)	%	81	80	82	84

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

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0	0	0
Nitration (PA)	%	54	58	64	59
Sulfation (PA)	%	62	63	61	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	5	6	5
Sodium	ppm	3	2	2	3
Potassium	ppm	<1	1	<1	<1

WEAR METALS

Iron	ppm	5	5	5	5
Copper	ppm	<1	1	3	3
Lead	ppm	<1	<1	<1	<1
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	1	1	2	1
Chromium	ppm	0	0	0	0
Molybdenum	ppm	39	41	46	37
Nickel	ppm	0	0	<1	0
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1667	1648	1843	1650
Magnesium	ppm	498	513	532	482
Zinc	ppm	1050	1090	1125	1040
Phosphorus	ppm	904	984	1049	910
Barium	ppm	<1	0	0	0
Boron	ppm	52	50	53	57

Depot: HOLCON
Unique No: 5695895
Signed: Wes Davis
Report Date: 13 Dec 2023

GRAPHS

