



CONSTRUCTION EQUIPMENT

24562 VOLVO L70H 624322 - DIESEL ENGINE



Sample No: VCP429017
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 24562



218 - ASCENDUM MACHINERY INC - N. CHARLESTON
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SAMPLE INFORMATION

Sample Number	VCP429017	VCP426916	VCP399948	VCP383965
Sample Date	08 Dec 2023	10 Aug 2023	03 Apr 2023	01 Dec 2022
Machine Hours	5313	4406	3409	2572
Oil Hours	1000	0	1000	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 100°C	cSt	12.8	13.0	13.1	13.2
Base Number (BN)	mg KOH/g	9.9	9.8	10.0	10.1
Oxidation (PA)	%	84	82	86	92



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.2	0.2	0.3
Nitration (PA)	%	67	69	68	86
Sulfation (PA)	%	60	59	62	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	8	6	10	8
Sodium	ppm	3	3	5	2
Potassium	ppm	2	<1	1	0



WEAR METALS

Iron	ppm	13	12	21	21
Copper	ppm	2	2	4	6
Lead	ppm	<1	<1	0	<1
Tin	ppm	1	<1	1	2
Aluminum	ppm	4	3	7	5
Chromium	ppm	1	1	2	1
Molybdenum	ppm	46	42	68	54
Nickel	ppm	<1	<1	<1	0
Titanium	ppm	<1	<1	0	0
Silver	ppm	0	<1	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	<1	<1	0



ADDITIVES

Calcium	ppm	1764	1825	2766	1700
Magnesium	ppm	587	544	840	555
Zinc	ppm	1227	1152	1860	1041
Phosphorus	ppm	972	947	1498	868
Barium	ppm	11	0	0	0
Boron	ppm	39	34	67	53

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 suitable for further service.

Depot: VOLVO3387
Unique No: 10782870
Signed: Wes Davis
Report Date: 14 Dec 2023



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GRAPHS

