



CONSTRUCTION EQUIPMENT

ASCENDUM MACHINERY 58879 VOLVO L70H L-2 (S/N 622561) - DIESEL ENGINE



Sample No: VCP420941
Oil Type: VOLVO VDS-4.5 Premium Motor Oil 15W40
Job No: 58879



SAMPLE INFORMATION

Sample Number	VCP420941	ASC0000231	VCP0006382	VCP0002838
Sample Date	18 Aug 2023	21 Jun 2023	29 Mar 2023	02 Jan 2023
Machine Hours	7202	7001	6571	6002
Oil Hours	0	430	569	448
Oil Changed	Not Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

CAROLINA EXCAVATING
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US 28025
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OIL CONDITION

Visc @ 100°C	cSt	█ 13.4	█ 12.9	█ 13.9	█ 13.4
Base Number (BN)	mg KOH/g	█ 9.4	█ 10.2	█ 9.0	█ 9.8
Oxidation (PA)	%	69	74	56	67

CONTAMINATION

Soot %	%	█ 0.2	█ 0.3	█ 0.3	█ 0.2
Nitration (PA)	%	47	55	57	58
Sulfation (PA)	%	56	59	50	54
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	█ 12	█ 4	█ 5	█ 4
Sodium	ppm	█ 2	█ 1	█ <1	█ <1
Potassium	ppm	█ 3	█ <1	█ 0	█ <1

WEAR METALS

Iron	ppm	█ 5	█ 8	█ 10	█ 10
Copper	ppm	█ <1	█ 0	█ <1	█ <1
Lead	ppm	█ 0	█ 0	█ 0	█ 0
Tin	ppm	█ 0	█ <1	█ <1	█ <1
Aluminum	ppm	█ 2	█ 3	█ 4	█ 4
Chromium	ppm	█ <1	█ <1	█ <1	█ <1
Molybdenum	ppm	█ 29	█ 42	█ 57	█ 55
Nickel	ppm	█ 0	█ 0	█ 0	█ 0
Titanium	ppm	<1	0	0	0
Silver	ppm	█ 0	█ 0	█ 0	█ 0
Manganese	ppm	█ <1	█ <1	█ 1	█ <1
Vanadium	ppm	<1	0	<1	0

ADDITIVES

Calcium	ppm	█ 1883	█ 1611	█ 1173	█ 1434
Magnesium	ppm	█ 345	█ 597	846	█ 658
Zinc	ppm	█ 1133	█ 1183	█ 1084	█ 1151
Phosphorus	ppm	█ 955	█ 953	█ 966	█ 964
Barium	ppm	█ 0	█ 0	█ 0	█ 0
Boron	ppm	█ 104	█ 39	█ 7	94

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The wear metal levels do not reflect the reported failure. 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: CARCONVC
Unique No: 10609107
Signed: Jonathan Hester
Report Date: 22 Aug 2023

Submitted By: CHRISTOPHER CANIPE



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GRAPHS

