



CONSTRUCTION EQUIPMENT

ASCENDUM MACHINERY 500HR CSA/CANDOR, NC VOLVO L150H 2040 (S/N 6410) - DIESEL ENGINE



Sample No: VCP404599
Oil Type: VOLVO VDS-4.5 Premium Motor Oil 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP404599	VCP0005020	VCP361567	VCP0002425
Sample Date	25 Jul 2023	20 Dec 2022	15 Sep 2022	15 Jun 2022
Machine Hours	8961	8535	8087	7561
Oil Hours	0	0	0	7561
Oil Changed	Changed	N/A	Changed	Changed
Sample Status	ABNORMAL	NORMAL	ATTENTION	ATTENTION

G S MATERIALS INC

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OIL CONDITION

Visc @ 100°C	cSt	▲ 11.8	■ 12.8	■ 13.3	▲ 10.21
Base Number (BN)	mg KOH/g	■ 8.4	■ 10.2	■ 9.8	■ 10.5
Oxidation (PA)	%	57	70	64	78



CONTAMINATION

Soot %	%	■ 0.1	■ 0.2	■ 0.3	■ 0.2
Nitration (PA)	%	53	61	61	61
Sulfation (PA)	%	50	58	57	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	▲ 5.9	<1.0	<1.0	■ 0.3
Silicon	ppm	■ 6	■ 10	■ 6	■ 8
Sodium	ppm	■ 2	■ 2	■ 2	■ <1
Potassium	ppm	■ 0	■ <1	■ 1	■ 2



WEAR METALS

Iron	ppm	■ 6	■ 9	■ 10	■ 7
Copper	ppm	■ <1	■ 1	■ 1	■ 1
Lead	ppm	■ 0	■ 1	■ <1	■ <1
Tin	ppm	■ <1	■ 2	■ <1	■ <1
Aluminum	ppm	■ 2	■ 7	■ 4	■ 3
Chromium	ppm	■ <1	■ <1	■ <1	■ 0
Molybdenum	ppm	■ 57	■ 53	■ 59	■ 43
Nickel	ppm	■ 0	■ <1	■ 1	■ 0
Titanium	ppm	0	■ <1	<1	<1
Silver	ppm	■ 0	■ 0	<1	0
Manganese	ppm	■ <1	■ <1	■ <1	■ <1
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	■ 1149	■ 1397	▲ 1219	■ 1601
Magnesium	ppm	921	■ 734	▲ 810	■ 467
Zinc	ppm	■ 1256	■ 1183	■ 1246	■ 1115
Phosphorus	ppm	■ 1028	■ 954	■ 1020	■ 905
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 6	■ 19	▲ 11	■ 44

Diagnosis

We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

Depot: GANBURNC
Unique No: 10575253
Signed: Don Baldrige
Report Date: 28 Jul 2023



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VOLVO GRAPHS

