

BUREAU VERITAS

31, rue Henri Rochefort
PARIS



CERTIFICAT DE CONTROLE CERTIFICATE OF CONTROL

N° 4840/FDR. 1981

MOT 4/248 VIB 4/248/2

Chantier Naval

Shipyard

Client

Societe Nouvelle des Ateliers et Chantiers du Havre, Le Havre, France.

Customer

Fournisseur

Supplier

Fabricant

Manufacturer

Alpha Diesel A/S, Frederikshavn, Denmark.

Commande

Purchase Order

S.4252/5833

Destiné à

Intended for

N/C 260, register no. 35 U 807.

ONE B & W ALPHA ENGINE. TYPE 6 S 28 L-VO. NO.: 14.031.

Six cylinders. - Diam.: 280 mm. - Stroke: 320 mm. - 1590 BHP. (MCR) - 775 R.p.m.

Four cycle. - Single acting. - Turbo charged.

The supervision of the work is carried out during the whole period of construction and during running-trials at the work. - The workmanship, hydraulic test as well as the working condition is throughout to satisfaction. - After the trial the engine was opened and re-inspected. - No fault or defects were observed.

Crankshaft forged steel, diam.: 230/240 mm. - Thrustshaft diam.: 245/290 mm. with 1 collar a 565 x 80 mm.

ALPHA GEAR type: 33 VO 31. Reduction ratio: 1:3,26 appr. at Paris 11/4 1973 sect. no. RED 40/5.

TWO RECEIVERS FOR COMPRESSED AIR, each holding 250 litres. Outside diam: 394 mm. Length: 2420 mm. - Thickness of ends: 13 mm. - of shell: 9,5 mm. - Material: SM.steel. Manufacture after makers drawing 150861-3A appr. at Paris 1981.07.30 during sect. no. RSPA 18/39.

Marques et Poinçon

Marking and Stamp

See annexed sheet.

Pièces jointes

Enclosures

Date of Survey from 1981.06.09 - 1981.11.06.

Mentions particulières

Particulars

Frederikshavn 1981.11.10

Date — Signature



S. Thstrup
S. Thstrup

Ce certificat atteste que les matériels
ci-dessus satisfont aux prescriptions du Règlement applicable de la Société.

This is to certify that the materials

listed above satisfy the relevant Rules of the Society.

Annexed sheet to Certificate of Control no. 4840/FDR 1981.

Motor no. 14.031.

Pistons	are stamped:	BV 4840 FDR 81 TP 7 AT.
Cylinder-covers	" "	: BV 4840 FDR 81 TP 7 AT.
Cylinder-liners	" "	: BV 4840 FDR 81 TP 7 AT.
Cylinder-frame	is "	BV 4840 FDR 81 TP 7 AT.
Connecting-rods	are "	: BV 4840 FDR 81 (BVN 225988/B/5d 81.03.31., BVN 225988/B/5-C 81.03.19.).
Crankshaft	is "	: BV 2141 SVB 81 (BV 2141/SVB/81.07.27.)
Turbocharger	" "	: HT 350355 81.03.17.
Oilcooler (MEX)		
Aircooler 1 off	" "	: BV 4840 FDR 81 TP 4 AT.

GEAR: No.: 670

type 33 VO 31

Thrustshaft	is stamped:	BV W 795 (LR KLN 600182 76.06.16.)
Couplingshaft	" "	: BV ESN 877 (LR KHN 600303/3 76.04.12.)
Spurwheel	" "	: BV CH 89070 PNR 34/3 BV MCH 78.12.12. (BVN 221707/D/1 78.12.12.)
Spurwheel	" "	: BV CH 115495 PNR 32/4 BV MCH 79.01.17. (BVN 221707/D/1 78.12.21.)
Couplingbowl	" "	: BV CH 656197 PNR 31/2 BV MCH 78.12.21. (BVN 221884/W/3 78.12.21.)
Coupling boss	" "	: BV CH 272441 PNR 664/665/7 BV MCH 78.12.21. (BV 222137/D 78.08.11.)
Oilcooler	" "	: BV FDR 80 TP 6 AT

Spare Parts:

Cylinder-liner	is stamped:	BV 4840 FDR 81 TP 7 AT.
Cylinder-cover	" "	: BV 4840 FDR 81 TP 7 AT.
Piston	" "	: BV 4840 FDR 81 TP 7 AT.
Connecting-rod	" "	: BV 4840 FDR 81 (BVN 225988/6-B 81.02.11.)

AIRRECEIVERS:

2 airreceivers are stamped: BV 4840 FDR 81.10.01. TP/WP 45/30 AT.



Frederikshavn 1981.11.10.

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