

SULZER

12. Dezember 1923.

Mr.

W. G. Vallis,
Lloyds Register of Shipping
WINTERTHUR.

14/ To. /24176/ Kobe Steel Works, Kobe.

Dear Sir,

We give below a list in duplicate of the spare gear
for your information :

1. For main engines No. 5049 & 5053 :

- 1) 1 cylinder cover complete with 1 complete combined fuel
and starting valve; ✓
1 complete advance valve and 1 safety valve. ✓
- 2) 1 complete set of valves consisting of :
 - 1 combined fuel and starting valve complete with
safety valve; ✓
 - 1 advance valve complete; ✓
 - 3 nests of scavenging-air valves complete;
 - 4 fuel needles with bushes. ✓
- 3) 1 piston complete with piston rings, piston rod and piston
cooling water running pipe. ✓



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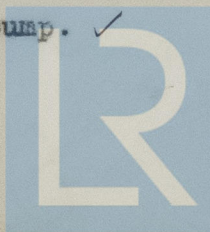
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- 4) 7 piston rings for working cylinder. ✓
- 5) 1 of each (total 4) ^{SKEW.} ~~screw~~ wheels. ✓
- 6) 2 connecting rod top end bolts and nuts. ✓
- 7) 2 " " bottom end " " " " . ✓
- 8) 2 main bearing bolts and nuts. ✓
- 9) 1 set (8 pieces) " " " for crankshaft coupling. ✓
- 10) 10 piston rings I stage for the compressor. ✓
 - 12 " " II " " " " " " . ✓
 - 12 " " III " " " " " " " " . ✓
- 1 oil scraper ring for working piston. ✓
- 2 spring rings for ~~same~~. ✓
- 2 oil scraper rings for compressor piston. ✓
- 11) 24 outer valve rings for I and II stage; ✓
 - 24 inner " " " " " " " " ; ✓
 - 4 suction valves " " " III " " ; ✓
 - 4 delivery " " " " " " " " . ✓
- 12) 8 suction valves for fuel pump; ✓
 - 8 delivery " " " " " " ; ✓
 - 8 plungers with bushes for fuel pump. ✓
- 13) 8 valves with valve-seats for cooling water circulating pump. ✓
- 14) 1 suction valve complete for bilge pump; ✓
 - 5 delivery valves with valve-seats for bilge and piston cooling water pump. ✓
- 15) 24 valve rings for scavenging pump. ✓



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- 16) 2 valve-seats with 10 valves complete for oil pump; ✓
2 valves with valve-seats for crosshead lubricating pump. ✓
17) 1 bucket and 1 rod complete for lubricating oil pump; ✓
18) 16 bolts and nuts for cylinder cover; ✓
19) 20 metres steel pipes for fuel oil with unions; ✓
10 " " " " starting air with unions; ✓
15 " " " " injection " " " " ✓

2. For auxiliary engine No. 5195, 5197 & 5291 :

- 1) 1 complete set of valves consisting of :
1 exhaust valve; ✓
1 air admission valve; ✓
1 starting valve; ✓
1 fuel valve; ✓
3 fuel needles with bushes; ✓
2) 6 piston rings for working cylinder; ✓
3) 2 connecting rod top end bolts and nuts; ✓
4) 2 main bearing bolts and nuts; ✓
5) 1 set (6 pieces) bolts and nuts for crankshaft coupling; ✓
6) 12 piston rings I stage for the compressor; ✓
15 " " II " " " " ; ✓
18 " " III " " " " , ✓
1 oil scraper ring for working piston; ✓
1 " " " " compressor piston. ✓

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- 15 valve-rings for I and II stage; ✓
- 2 suction valves for III stage; ✓
- 2 delivery valves " III " . ✓
- 3 suction valves for fuel pump; ✓
- 3 delivery " " " " ; ✓
- 3 plungers with bushes for fuel pump; ✓
- 4 valves with valve-seats for cooling water circulating pump; ✓
- 4 valves for cylinder lubricating pump; ✓
- 1 valve for oil pump; ✓
- 2 pinions with shafts for oil pump; ✓
- 8 bolts and nuts for cylinder cover; ✓
- 2 connecting rod top end bolts and nuts for air compressor
and a quantity of assorted bolts and nuts diverse; ✓
- 5 metres steel pipes for starting air with unions; ✓
- 4 " " " " injection " " " ; ✓
- 6 " " " " fuel oil " " " ; ✓
- 2 sq. " polyperit packing;
- 3 fuel needles for fuel valve; ✓
- 3 pulveriser " " " , ✓
- 3 exhaust valves with seats; ✓
- 6 springs for each of exhaust, admission, starting and
fuel valves; ✓
- 6 piston rings for working piston; ✓



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4 piston rings for I stage; ✓

5 " " " II " ; ✓

6 " " " III " . ✓

Yours faithfully

P.S. Spares in Item 14 are given extra as they are
included in motor price

W.G.V.



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