

THE PROPUES REPUBLIC OF CHINA

杭州汽车发动机厂 HANGCHOW AUTOMOBILE ENGINE WORKS

1/42-64 12

海川海

PARTS CATALOGUE FOR DIESEL ENGINE MODEL 6120

中华人民共和国 THE PEOPLE'S REPUBLIC OF CHINA

杭州汽车发动机厂 HANGCHOW AUTOMOBILE ENGINE WORKS

传主席语录

戏到底的污燃,有在自力更 们中华民族有同自己的贫

的某础上光复旧物的狭心。 为中世民民族人类创品力。

《治反对日本帝国主义的策略》

QUOTATION FROM

CHAIRMAN MAO TSETUNG

our lost territory by our own efforts, to fight the enemy to the last drop of in the family of nations. our blood, the determination to recover and the ability to stand on our own feet We the Chinese nation have the spirit

"On Tactics Against Japanese Imperialism" (December 27,1935), Selected Works, Vol.I, p.170.

-OII:

些

主义" 真理, 特风格, 造的无产阶级革命精神。 我厂广大革命 K 高 宜作为汽车, 雪 推动着 等反革命修正主 充分显示了用战无不胜的毛泽东思想武装起来的我国工人阶级、革命干部和革命技术人员具有无穷的智慧和无限的创 挫 世 現上 我国 .先进的柴油发动机;它重量轻,马力大, 船舶、电站以及工程机械的动力,用途广泛。这一新成果的出现, 注席教导我们: |社会主义建设迅速发展。在党的"九大" 高举"鞍钢宪法"伟大红旗、狼批了叛徒、内奸、工贼刘少奇的"专家治厂" 义黑货。在伟大领袖毛主席的"独立自主、 在兄弟单位的大力支持下, "革命就是解放生产力, 试制成功6120柴油机以及功率更高的6130柴油机。 振动小, 革命就是促进生产力的发 团结胜利的精神鼓舞下, 结构简 自力更生"的伟大方针指引下,发扬敢想、 草牢固, 操纵维修方 雄辩地证明了毛主席"精神变物质"的伟大 滅。 在光 七半 1 寅 雁 的光产 阶级文化大革命以极其雄伟 并且可以使用 "洋奴哲学" 阶级革命路线指引下, 汝是一: **数干、** 种具有我国 W 黄十 滦 "馬介 类 凾 溢

艦 治件外, 照伟大领袖毛主席 现以我厂生产的6120型柴油机(基本型)为主要叙述对象, 其他零部件均与基本型通用。 "备战、备荒、 为人民" 和"中国应当对于人类有较大的贡献" 编成零件图册,对于各种变型及配套, 的教导, 为适应 除按各该机型 # H 和使用 何四

理专

忠

购6120柴油机零部件时,必须提供下列说明:

- 柴油机的出厂年份与编号;
- 自本图册中查出所订零部件号;
- 3, 所订零部件名称;
- ;订零部件属于那一部份组件的名称,如气缸体总成,喷油泵总成等
- 般易损零件, 标准 件及非金属 制品的各种垫片可 直接到当地机械配件供应部门采购

讏 社会 111-义建设事业 照伟大领袖毛主席 化跃发 展的需要, "中国人民有志气,有能力, 本产品将不断地改进和发展, 一定要在不远的将来,赶上和超过世界先进水平"的教导, 嵌本零件图册过一定时期将进行补充和修订, 姙 随着我 压 T 注 PH

中国 杭州 杭州汽车发动机厂

1970

Foreword

we have published this catalogue, in which the parts and members of 6120 Diesel engine (general type) and do everything the inexhaustible wisdom and the boundless creativeness of the workers, revolutionary cadres a word, it has found a wide use. used. It can provide a prime mover for cars, ships, power stations and machinery of various sorts. In class: the engine being of light weight, the output high, the vibration slight, the structure compact and of engine, new and advanced in design, with peculiarities fully showing the ability of and produced 6120 Diesel engine and 6130 Diesel engine - one of higher output. This is a special kind do, and dare to create. Now, with the great support of our brotherly units, we have successfully designed counter-revolutionary revisionist trash peddled by the renegade, hidden traitor and scab Liu Shao-chi. cadres and technicians of our works, holding aloft the great red banner of the Constitution of the has pushed forward the socialist construction of our country and made it develop rapidly. promoting their growth." The Great Proletarian Cultural Revolution, with its tremendous technicians in our country, who are armed with invincible Mao Tsetung Thought. According to our truth of Chairman Mao's assertion: "Consciousness can be transformed into matter", fully displaying rigid, its control and maintenance convenient. Besides, for an engine of this kind, multi-fuel can be Mao, we have promoted the spirit of the proletariat, by virtue of which we dare to think, dare Under the great orientation of independence and self-reliance put forward by our great leader Chairman factory, the philosophy of slavish compradors, the doctrine of trailing behind at a snail's pace — the Anshan Iron and Steel Company, have severely criticized the fallacy of relying on experts to run the Party and guided by the revolutionary line of Chairman Mao, we, all the workers, revolutionary by the spirit of unity and victory incarnated in the Ninth National Congress of the Chinese Communist great leader Chairman Mao teaches us: "Revolution means liberating the productive Chairman Mao's teachings: "Be prepared against war, be prepared against natural disasters for the people", and "China ought to have made greater contributions The appearance of this new product eloquently testifies the great our working Encouraged forces

descriptions are also applicable to the parts and members of modified-type engines, but not to are described especially made for them. - a catalogue intended to satisfy the requirements in the use of the engine.

for 6120 Diesel engine spare parts: The following remarks are given for the consideration of our customers, who desire to give an order

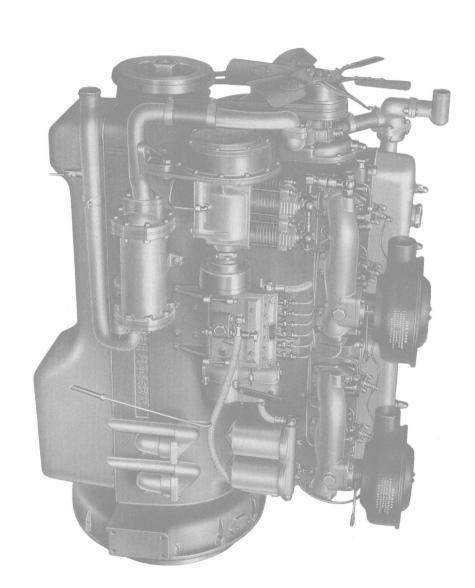
- 1. Date of delivery of the engine and its serial number.
- 2. Serial numbers of the parts as indicated in the catalogue
- 3. Names of the parts required.
- sembly, the fuel injection pump assembly etc. Name of the assembly of which the parts required are components, e.g., the cylinder block as-

All fragile parts, standardized parts, and non-metal gaskets are available at the supply offices of parts.

we hope, our sustomers will take notice. thereby, resolving, in a certain period, to revise and supplement the catalogue we have issued. Of this country, we shall continually improve the design and characteristics of the engine above mentioned, the not too distant future" and in line with the rapid development of the socialist construction in our rations, they have ability, and they will certainly catch up with and surpass advanced world levels in In accordance with our great leader Chairman Mao's teaching: "The Chinese people have high aspi-

Hangchow Automobile Engine Works
Hangchow, China
1970

6120柴油机外形图 GENERAL VIEW OF 6120 DIESEL ENGINE



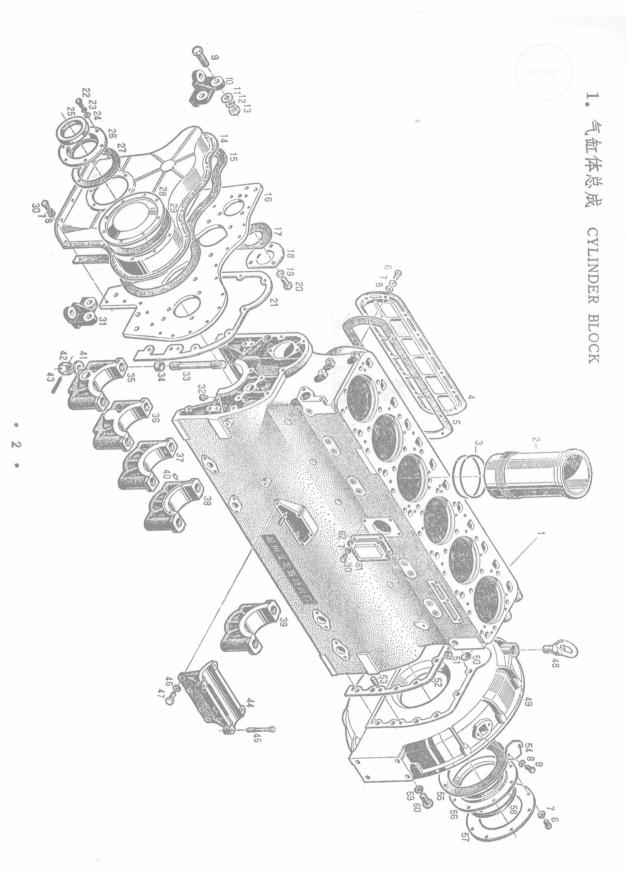
| 2 | " 道 (C | 7. 配 Va | 5. ∐ Са | 5. Ge | ↑ Cr 田 | 3. 活 Pi | 2. = C, | 1. [], |
|----------------|---------------------|---------------------------|---------------------------------|-----------------------------------|-------------------------------|----------------------------------|--------------------------|--------------------------------------|
| | 油底壳总成 . Oil Sump | 配气机构 Valve-Actuating | 凸轮轴总成 . Camshaft | 传动机构 Gear Train ? | 曲轴与飞轮 . Crankshaft a | 活塞与连杆 Piston and (| 气缸盖总成 . Cylinder Head | 气缸体总成 Cylinder Block |
| | • | | . , | System | and Flywheel | · · · · · · · · · Connecting Rod | . pr | ck. |
| | • | · · · · · · · · Mechanism | | • | ywheel | ··· · · | • | • |
| | | я | | | • | od . | • | • |
| • | • | • | • | • | • | • | • | • |
| • | • | | | • | • | • | • | |
| . 35 | . 31 | . 2 | • | • | • | • | • | • |
| Л | - | 27 | 23 | 19 | 15 | Ξ | 7 | - |
| 18. | 17. | 16. | 15. | 14. | 13. | 12. | | 10. |
| ジャンド インドイン・アンド | 冷却水管总成 | 滑油冷却器总成 Oil Cooler | 滑油精滤器总成 Lubricating Oil Fine | 滑油粗滤器总成 Lubricating Oil Coarse | 滑油泵总成 Lubricating Oil Pump | 滑油管总成(6120Q-1) Oil Piping | 滑油管总成 Oil Piping | 双级空气滤清器总成 . Double Stage Air Clea |
| • | System | | Filter | Filter | | | • | eaner |
| | | | • | | • | • | • | • |
| • | • | • | • | • | • | • | • | • |
| | • | • | • | • | • | • | • | • |
| 71 | 67 | 63 | 59 | 55 | 51 | 47 | 43 | 39 |

| 25. 喷油泵总成(B Fuel Injection | | 24. 喷油角度提前器总成 Injection-Advance | 23. 调速器总成 Governor | 22. 输油泵总成 Fuel Supply Pump | 21. 喷油泵总成(B Fuel Injection | 20. 柴油遮清器总成 Fuel Oil Filter | 19. 柴油管总成 · · · Fuel Oil Piping |
|-------------------------------|--------------------|------------------------------------|-----------------------|----------------------------|--|---|---|
| | 喷油泵总成(BZ6J85×8S〇4) | 器总成 | | Pump | 喷油泵总成(B I 6M R85 F Z — 1) · · · · · · Fuel Injection Pump | 成 · · · · · · · · · · · · · · · · · · · | |
| | 101 | 97 | 93 | 89 | 83 | 79 | 75 |
| | 33. | 32. | 31. | 30. | 29. | 28. | 27. |
| | 废气涡轮增压器总成 | 空气压缩机总成 | 起动液喷射器总成 | 30. 起动机构 | 喷油器总成 | 喷油角度提前器总成 | 调速器总成 · · · · · · · · · · · · · · · · · · · |
| 2 | 139 | 133 | 129 | 125 | 121 | 117 | 111 |

6120—1002

气 笛 体 恐 成 CYLINDER BLOCK



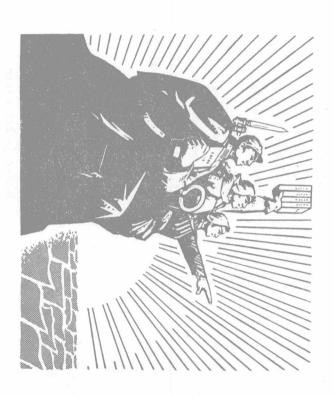


1. 气缸体总成 CYLINDER BLOCK

| သ | Bolt M12×14 | 螺栓 M12×14 | GB21—58 | 20 |
|-------------|-------------------------------|--------------|---------------|-------------|
| 7 | Lock washer 12 | 弹簧垫圈 12 | GB93—58 | 19 |
| - | Auxiliary pump cover | 备用泵盖 | 6120—1002—045 | 18 |
| 1 -4 | Cork gasket | 软木垫片 | 6120-1002-046 | 17 |
| <u>م</u> سر | Cylinder block front cover | 气缸体前端板 | 6120-1002-016 | 16 |
| 1 | Cork gasket | 软木垫片 | 6120-1002-037 | 15 |
| 1 | Timing gear cover | 正时齿轮室盖 | 6120-1002-004 | 14 |
| 4 | Nut AM16 | 螺母 AM16 | GB52—58 | 13 |
| 4 | Lock washer 16 | 弹簧垫圈 16 | GB93—58 | 12 |
| 4 | Washer 16 | 垫圈 16 | GB95—58 | 11 |
| 1 | Right engine mounting bracket | 发动机右支架 | 6120—1002—021 | 10 |
| 4 | Bolt M16×50 | 螺栓 M16×50 | GB21—58 | 9 |
| 54 | Washer 8 | 整 圈 8 | GB95—58 | ∞ |
| 64 | Lock washer 10 | 弹簧垫圈 10 | GB93—58 | 7 |
| 38 | Bolt M8 × 20 | 螺栓 M8×20 | GB21—58 | 6 |
| 2 | Cork gasket | 软木垫片 | 6120-1002-019 | Сī |
| 2 | Valve tappet chamber cover | 推杆室盖 | 6120-1002-018 | 4 |
| 12 | Cylinder liner packing ring | 封水圈 | 6130-1002-013 | |
| 12 | Cylinder liner packing ring | 封水圈 | 6120-1002-013 | 3 |
| 6 | Cylinder liner | 气缸套 | 6130-1002-012 | |
| 6 | Cylinder liner | 气缸套 | 6120—1002—012 | 2 |
| ,, | Cylinder block | 气缸体 | 6130—1002—011 | |
| ш | Cylinder block | 气缸体 | 6120—1002—011 | 1 |
| 数 o | Description | 的帮 | 件 Part No. | 标 号 Item |
| | | | | |

| 14 | Cotter pin 4 × 40 | 开口肖 4×40 | GB91—58 | 43 |
|-------------|----------------------------------|-------------|---------------|-----------|
| 14 | Main bearing nut | 主轴承螺母 | 6120-1005-043 | 42 |
| 14 | Washer 20× 4 | 垫圈 20×4 | GB97—58 | 41 |
| 4 | Thrust plate dowel pin | 止推片定位肖 | 6120-1005-039 | 40 |
| - | 7th main bearing cap | 第七道主轴承盖 | 6120-1005-040 | 39 |
| - | 4th main bearing cap | 第四道主轴承盖 | 6120-1005-044 | 38 |
| ယ | 3rd 5th and 6th main bearing cap | 第三、五、六道主轴承盖 | 6120—1005—048 | 37 |
| 1 | 2 nd main bearing cap | 第二道主轴承盖 | 6120-1005-068 | 36 |
| 1 | 1 st main bearing cap | 第一道主轴承盖 | 6120-1005-045 | 35 |
| 14 | Main bearing cap dowel bush | 主轴承定位套 | 6120—1005—022 | 34 |
| 14 | Main bearing bolt | 主轴承螺栓 | 6120-1005-042 | 33 |
| 4 | Oil gallery plug | 滑油道堵塞 | 6120-1002-030 | 32 |
| | Left engine mounting bracket | 发动机左支架 | 6120-1002-023 | 31 |
| 28 | Bolt M8 × 14 | 螺栓 M8×14 | GB21—58 | 30 |
| н | Cork gasket | 软木垫片 | 6120-1002-039 | 29 |
| J 1 | Drive gear cover | 传动齿轮盖板 | 6120—1002—005 | 28 |
| - | Cork gasket | 软木垫片 | 6120-1002-041 | 27 |
| } —4 | Front oil seal seat | 前油封座 | 6120-1002-006 | 26 |
| н | Crankshaft front oil seal | 曲轴前油封 | 6120-1005-013 | 25 |
| 14 | Washer 6 | 垫圈 6 | GB95—58 | 24 |
| 14 | Lock washer 6 | 弹簧垫圈 6 | GB93—58 | 23 |
| 14 | Bolt M 6 × 14 | 螺栓 M6×14 | GB30—58 | 22 |
| 1 | Fiber gasket | 钢纸垫片 | 6120-1002-017 | 21 |
| 数 Q'ty | Description | 各 | 件 Part No. | 标 Item |

| - | Gasket | 勢片 | 6120-1002-026 | 62 |
|-----------|-----------------------------------|----------------|---------------|------------|
| - | Water jacket cover | 水套盖 | 6120—1002—025 | 61 |
| 10 | Bolt M14×50 | 螺栓 M14×50 | GB21—58 | 60 |
| 10 | Lock washer 14 | 弹簧垫圈 14 | GB93-58 | 59 |
| 1 | Rubber-asbestos oil seal | 橡胶石棉油封 | 6120—1005—026 | 58 |
| 1 | Rear oil seal cover | 后油封盖 | 6120-1005-035 | 57 |
| <u> </u> | Rear oil seal seat | 后油封座 | 6120-1005-036 | 56 |
| — | Cork gasket | | 6120—1005—067 | 55 |
| | Timing inspection window cover | 正时检查孔盖 | 6120-1002-024 | 54 |
| 6 | Straight pin 10d4×25 | 园柱肖10d4×25 | GB119—66 | 53 |
| — | Fiber gasket | 钢纸垫片 | 6120-1002-015 | 52 |
| 4 | Socket head plug | 方孔锥形螺塞 | C 61302 | 51 |
| | Shim | 塞片 | C 44032 | 50 |
| | Flywheel housing | 飞轮壳 | 6120—1002—014 | 49 |
| | Shouldered eye bolt | 发动机吊环 | 6120-1002-029 | 48 |
| 9 | Bolt m10×30 | 螺栓 M10×30 | GB21—58 | 47 |
| 9 | Lock washer 10 | 弹簧垫圈 10 | GB93—58 | 46 |
| 4 | Fuel injection pump locating bolt | 喷油泵固定螺钉 | 6120-1002-031 | 45 |
| 1 | Fuel injection pump bracket | 喷油泵支架 | 6120—1002—027 | 44 |
| 数 Q'ty | Description | 名 | 件 Part No. | 标号 Item |



6120-1003

气 缸 盖 总 成 CYLINDER HEAD

