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The Installation Case Portfolio of Centralized Lubrication System

The Installation Case of Vehicle CLS

CLS for Yutong Bus

Manufacturer: Yutong Type of Distributor:single-row single-line

Number:2 Installation Date: 2017.10.13



- 1 The location of pump
- 2The location of monitor
- 3 The location of distributor
- 4 The location of tube and wire harness (Note: the order is from left to right, top to bottom)

Vehicle:Yutong bus Type of Lubrication pump: AR60H Lube points:8









CLS for Zhongtong Bus

Manufacturer:Zhongtong Type of Distributor:single-row single-line Number:2 Installation Date: 2018.8



- ①The location of pump
- ②The location of monitor
- 3 The location of distributor
- 4 The location of lube points

Vehicle: Zhongtong LCK6109052 Type of Lubrication pump: AR60 Lube points: 15









CLS for Yutong Bus

Manufacturer:Yutong Type of Distributor:single-row single-line Number:2 Installation Date: 2018.6



- 1 The location of pump
- 2The location of monitor
- ③ The location of distributor
- 4 Vehicle Information

Vehicle:Yutong bus Type of Lubrication pump: AR60H Lube points:8











CLS for Zhongtong Bus

Manufacturer:Zhongtong Type of Distributor:single-row single-line Number:1 Installation Date: 2017.10.13



- 1) The location of pump
- ②The location of monitor
- 3 The location of distributor
- 4 The location of tube and wire harness

Vehicle: Zhongtong LCK6109052 Type of Lubrication pump: AR60H Lube points: 8









CLS for Gold Dragon Bus

Manufacturer: Gold Dragon

Type of Distributor:single-row single-line

Number:2

Installation Date: 2017.8



- 1) The location of pump
- ②The location of monitor
- 3 The location of distributor
- 4 The location of tube and wire harness

Vehicle:King Long 6106 Type of Lubrication pump: AR60H Lube points:20







CLS for BYD Bus

1 The location of pump

2 The location of monitor

3 The location of distributor

4 The location of lube points

Manufacturer:BYD Type of Distributor:single-row single-line Number:2 Installation Date: 2018.8

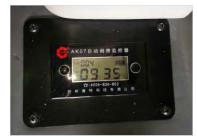


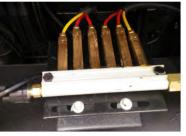


Lube points:12

Vehicle:BYD GZ6100LGEV5

Type of Lubrication pump:ALP50







CLS for CRRC

Manufacturer:CRRC Type of Distributor:single-row single-line Number:2

Installation Date: 2018.9



- 1)The location of pump
- ②The location of monitor
- ③ The location of distributor
- 4 The location of tube and wire harness

Vehicle:Zhongche Bus Type of Lubrication pump: AR60H Lube points:12







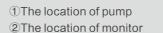


CLS of Malaysia Kuala Lumpur Bus

Type of Distributor:single-row single-line Number:2 Installation Date: 2018.6

Vehicle: Bus Type of Lubrication pump: AR60 Lube points: 21





- ③ The location of tube and wire harness
- 4 The location of lube points









The Installation Case of CLS and WGCS in Wind Turbines

Envision Energy

Fan Model: 2.XMW

Installation Position: Yaw, Principal Axis, Variable Pitch System Type: Progressive Centralized Lubrication System



- 1 Installation position of lubricating pump
- ② Installation position of distributor
- ③ Installation position of pinion
- 4 Layout effect of pipeline









Mingyang Smart Energy

Fan Model: 5MW/6MW/8MW

Installation Position: Yaw, Variable Pitch

System Type: Single-Line Centralized Lubrication System



③ The lubrication point is well sealed

4 Engine oil cylinder does not fall off









Envision Energy

Fan Model: 4MW/5MW

Installation Position: Yaw, Principal Axis, Variable Pitch System Type: Progressive Centralized Lubrication System

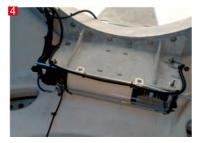


- ① Installation position of lubricating pump
- 2 Pipeline alignment
- 3 Installation of secondary distributor
- 4 Installation position of lubricating pump









Mingyang Smart Energy

Fan Model: 3MW

② Distributor

without oil leakage

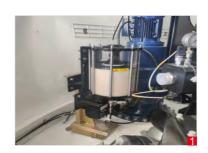
Installation Position: Yaw, Variable Pitch

System Type: Progressive Centralized Lubrication System





- ③ Pipeline protection picture
- 4 Installation picture of branch pipeline









Haizhuang Wind Power

Fan Model: 2.XMW/3MW

Installation Position: Yaw, Principal Axis, Variable Pitch

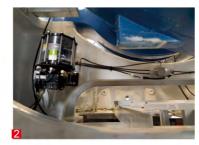
System Type: Progressive/Single-Line Centralized Lubrication System



- ① Installation position of lubricating pump
- ② Installation position of yaw gear ring lubricating pump
- ③ Alignment of variable pitch branch pipeline
- (4) Installation position of variable pitch pinion









Dongfang Electric Wind Power

Fan Model: 3MW

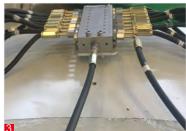
Installation Position: Yaw, Principal Axis, Variable Pitch System Type: Progressive Centralized Lubrication System











CRRC Wind Power

Fan Model: 1.5MW/2.XMW/3.XMW/4.XMW

Installation Position: Yaw, Principal Axis, Variable Pitch

System Type: Progressive/Single-Line Centralized Lubrication System



- ① Installation position of lubricating pump
- ② Operation effect of monitor
- ③ Installation position of distributor







Sany Renewable Energy

Fan Model: 909

Installation Position: Yaw, Principal Axis, Variable Pitch System Type: Progressive Centralized Lubrication System



- 1 Installation position of lubricating pump
- ② Installation position of distributor
- ③ Installation position of oil collecting cylinder
- 4 Installation position of pipeline









Guizhou Longyuan

Main Engine Manufacturer: GOLDWIND

Fan Model: 1.5MW

Modified Part: variable pitch

System Type: single-line centralized lubrication system + used grease collection system



- 1) Installation position of lubricating pump
- 2 Operation effect of monitor
- ③ Installation position of distributor
- 4 Lipid evacuator and absorber









Jingneng Saihan

Main Engine Manufacturer: GOLDWIND

Fan Model: 1.5MW

Modified Part: variable pitch

System Type: single-line centralized lubrication system + used grease collection system



1 Installation position of lubricating pump

2 Installation position of distributor

③ Operation effect of monitor

4 Effect of oil discharge









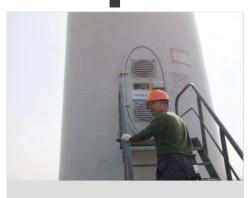
Liaoning Longyuan

Main Engine Manufacturer: United Power

Fan Model: 1.5MW

Modified Part: variable pitch bearing

System Type: single-line centralized lubrication system + used grease collection system



- 1) Installation position of lubricating pump ② Installation position of distributor
- ③ Installation effect of pipeline
- 4 Effect of lubrication point









Datang Guizhou

Main Engine Manufacturer: United Power

Fan Model: 2MW

Modified Part: variable pitch

System Type: used grease collection system



- 1 Installation position of power pump 2 Installation position of four-way
- 3 Parameter setting
- 4 Lipid evacuator and absorber









State Power Investment Corporation Limited

Main Engine Manufacturer: Mingyang Smart Energy

Fan Model: 1.5MW

Modified Part: variable pitch

System Type: single-line centralized lubrication + used grease collection system



- 1) Installation position of lubricating pump
- 2 Installation position of monitor
- 3 Installation position of distributor
- ④ Installation position of lipid evacuator and absorber









Shandong Jiaozhou

Main Engine Manufacturer: Mingyang Smart Energy

Fan Model: 2MW

Modified Part: principal axis

System Type: single-line centralized lubrication + used grease collection system





- ② Installation position of lipid evacuator and absorber
- ③ Installation position of lipid evacuator and absorber④ Installation position of sensor







Datang Sanmenxia

Main Engine Manufacturer: China Creative Wind Energy

Fan Model: 3MW

Modified Part: variable pitch

System Type: double-line centralized lubrication system + used grease collection system



- 1) Installation position of lubricating pump
- ② Distributor
- ③ Fixing position of lipid evacuator and absorber
- 4 Pipeline pressure









Datang Zhongwei

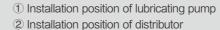
Main Engine Manufacturer: China Creative Wind Energy

Fan Model: 2MW

Modified Part: variable pitch + yaw

System Type: single-line centralized lubrication + used grease collection system





- 3 Main oil pipe
- 4 Parameters of pump station









The Installation Case of earthmoving equipment

SANY SY215 Excavator Centralized Lubrication System

Equipment Type: SY215E Lubricating Pump Model: ALPA1016 Distributor Type: Progressive Distributor Total Number of Equipment Lubrication Points:13 Installed on: May 2020



① Installation position of lubricating pump 2 Installation position of distributor





CLS of Komatsu 240 Excavator

Manufacturer:Komatsu Type of Distributor: Progressive Distributor Number of Distributor:3 Installation Date:2018.3.28

Equipment type:Komatsu 240 excavator Type of Lubrication: ALP1026 Lube points:9



1) The location of pump

wire harness

2 The location of tube and

3 The location of distributor







SANY SY1250 Excavator Centralized Lubrication System

Equipment Type: SY1250H Lubricating Pump Model: ADP1221 Installed on: May 2020

Total Number of Equipment Lubrication Points:9 Distributor Type: Progressive Distributor



- ① Installation position of lubricating pump 2 Installation position of distributor
- 3 Installation position of distributor
- 4 Line alignment









CLS of XCMG XE900D Excavator

Manufacturer: XCMG Type of Distributor: Single-line Distributor Number of Distributor: 2 Installation Date: 2017.3.18

Equipment type: XE900D excavator Type of Lubrication: ALP1026 Lube points: 12



- 1 The location of pump
- 2 The location of monitor
- 3 The location of distributor
- 4 The location of tube and wire harness





CLS of Catepillar Excavator

Manufacturer: Catepillar Type of Distributor: Progressive Distributor Number of Distributor: 2 Installation Date: 2017.11.15

Equipment type: Catepillar 390 excavator Type of Lubrication: ALP1026 Lube points: 11



4 The location of tube and wire harness

The location of pump
 The location of monitor
 The location of distributor









CAT 966M XE











CLS of Sunward Excavator

Manufacturer: Sunward
Type of Distributor: Progressive Distributor
Number of Distributor: 3
Installation Date: 2017.7



① The location of pump ② The location of distributor







CAT D5 DOZER











CAT309











Komatsu PC 240 NLC











Caterpillar 315







Kubota U56-5







The Installation Case of Truck

Tonly 875D Dump Truck Centralized Lubrication System

Equipment Type: 875D dump truck Lubricating Pump Model: ALPA1014 Total Number of Equipment Lubrication Points:9 Distributor Type: Single-Line Progressive Distributor Installed on: May 2020



- 1 Installation position of lubricating pump
- 3 Installation position of monitor
- 2 Installation position of distributor







XCMG 90T Heavy Truck Centralized Lubrication System

Equipment Type: XCMG 90T heavy truck Lubricating Pump Model: ALPA1014 Total Number of Equipment Lubrication Points:9 Distributor Type: Three-Line Progressive Distributor Installed on: May 2020







Shaanxi Tonly Heavy Industries Mining Truck Centralized Lubrication System

Equipment Type: Mining Truck Lubricating Pump Model: AR60H Installed on: August 2019

Total Number of Equipment Lubrication Points:32 Distributor Type: Pressurized Distributor



- 1 Installation position of lubricating pump
- 2 Installation position of monitor
- ③ Installation position of distributor
- 4 Position of lubrication points









Ginaf Heavy Truck Centralized Lubrication System

Equipment Type: HD5395 TS Mining Truck Lubricating Pump Model: ALP502, AR60H Total Number of Equipment Lubrication Points: 23/22

Distributor Type: Pressurized Distributor Installed on: April 2014



- 1 Installation position of 50 lubricating pump 2 Installation position of distributor
- 3 Installation position of 60 lubricating pump
- 4 Installation position of distributor









Sinotruk Qingdao Heavy Industry 90 T Heavy Truck Centralized Lubrication System

Equipment Type: Heavy Truck Lubricating Pump Model: AR60 Total Number of Equipment Lubrication Points:28 Distributor Type: Pressurized Distributor Installed on: December 2018



- 1 Installation position of lubricating pump
- 2 Installation position of monitor
- 3 Installation position of distributor
- 4 Effect of lubrication point









Centralized Lubrication System for Jiefang Car Carrier and Auman Car Carrier

Equipment Type: Car Carrier Lubricating Pump Model: AR60H Total Number of Equipment Lubrication Points: 52

Distributor Type: Pressurized Distributor Installed on: June 2018







- 2 Installation position of pipeline

HINO MOTOR Centralized Lubrication System

Equipment Type: truck Lubricating Pump Model: AR60 Total Number of Equipment Lubrication Points:28 Distributor Type: Single-Line In-line Distributor





- 1 Installation position of lubricating pump 2 Installation position of distributor
- 3 Position of lubrication points
- 4 Arrangement of wire harness









The Installation Case of Rotary Drill

SANY 365 Rotary Drill Centralized Lubrication System

Equipment Type: 365 rotary drill Lubricating Pump Model: ALPA1026 Total Number of Equipment Lubrication Points: 46 Distributor Type: Double-Line Progressive Distributor Installed on: April 2018



- ① Installation position of lubricating pump
- 2 Installation position of distributor
- ③ Arrangement of wire harness
- 4 Position of lubrication points









Zoomlion 280C-3 Rotary Drill Centralized Lubrication System

Equipment Type: 280c-3 rotary drill Lubricating Pump Model: ADPA1026 Total Number of Equipment Lubrication Points:13 Distributor Type: Double-Line Progressive Distributor Installed on: October 2020







- Installation position of lubricating pump
 Double-line distributor
- 3 Chassis distributor and pipeline
- Chassis distributor and pipeline





Yutong YTR300D Rotary Drill Centralized Lubrication System

Equipment Type: YTR300D rotary drill Lubricating Pump Model: ADP1224 Total Number of Equipment Lubrication Points: 23 Distributor Type: Double-Line Progressive Distributor Installed on: August 2020







- ① Installation position of lubricating pump
- 2 Distributor
- 3 Pipeline
- 4 Oil discharge test





The Installation Case of Loader

Jiyuan XCMG Loader Centralized Lubrication System

Equipment Type: Z150 loader Lubricating Pump Model: ALP812 Total Number of Equipment Lubrication Points: 12 Distributor Type: Progressive Distributor Installed on: May 2020



- ① Installation position of lubricating pump
- 2 Installation position of distributor
- ③ Position of lubrication points
- 4 Oil discharge







Jiyuan Doosan Loader Centralized Lubrication System

Equipment Type: DL501-9C loader
Lubricating Pump Model: ALPA1022
Total Number of Equipment Lubrication Points: 14

Distributor Type: Progressive Distributor Installed on: November 2020











- ① Installation position of lubricating pump
- ② Installation position of distributor
- ③ Position of lubrication points
- 4 Line alignment

Doosan Loader Centralized Lubrication System

Equipment Type: DL501–9C loader Lubricating Pump Model: ALPA1022 Total Number of Equipment Lubrication Points: 14 Distributor Type: Progressive Distributor Installed on: June 2017



- ① Installation position of lubricating pump
- 2 Installation position of distributor
- ③ Position of lubrication points
- 4 Arrangement of wire harness









S&G











Doosan DL 220







JCB 435S







The Installation Case of Port

Shanghai Donggang Centralized Lubrication System

Equipment Name: Query-side Container Crane System Name: Multi-line Lubrication System

System Model: ACL300

Number of Lubrication Points: 4 Installed on: October 2017











SDIC Caofeidian Terminal Centralized Lubrication System

Equipment Name: Belt Conveyor / Ship Loader System Name: Multi-line Smart Lubrication System System Model: ACL300

Number of Lubrication Points: 1358 Installed on: June 2020











Huaneng Caofeidian Terminal Centralized Lubrication System

Equipment Name: Belt Conveyor System Name: Multi-line Smart Lubrication System

System Model: ACL300

Number of Lubrication Points: 1200 Installed on: May 2016











Zhuhai Hongwan Container Terminals Centralized Lubrication System

Equipment Name: portal slewing crane/rail gantry crane System Name: Multi-line Smart Lubrication System System Model: AISL1000

Number of Lubrication Points: 97 Installed on: June 2018











The Installation Case of Mine

Centralized Lubrication System for Liming Heavy Industry 860 Crusher

Equipment Name: 860 crusher System Name: Smart Centralized Lubrication System Installed on: March 2018

System Model: ALP1024

Number of Lubrication Points: 4









SNKSAN

Main Engine Manufacturer: jaw crusher Number of Lubrication Points: 4

System Name: ALPB1218j - "Lubrication System



2 Installation position of pipeline

3 Lubricating point 01 4 Lubricating point 02









Zhongyudingli Centralized Lubrication System

Equipment Name: Vibrating feeder System Name: Smart Centralized Lubrication System System Model: automatic lubricant pump

Number of Lubrication Points: 8 Installed on: June 2018











The Installation Case of Production Line

Centralized Lubrication System for Philippine Coca-Cola Production Line

Equipment Name: Coca-Cola Production Line System Name: Smart Lubrication System

System Model: ALP1016

Number of Lubrication Points: 80 Installed on: November 2020











Centralized Lubrication System for Hitachi Auto Parts Production Line Chain

Equipment Name: Chain of Production Line System Name: Smart Centralized Lubrication System System Model: ALP502 Number of Lubrication Points: Chain Installed on: August 2018











Centralized Lubrication System for Philippine Injection Molding Machine

Equipment Name: Injection Molding Machine System Name: Smart Centralized Lubrication System System Model: ALP1014 Number of Lubrication Points: 30 Installed on: January 2018











Centralized Lubrication System for Liu' an Beer Production Line

Equipment Name: Bearings of Beer Production Line System Name: Multi Line Lubrication System System Model: ALPB1226 Number of Lubrication Points:4 Installed on: November 2020











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The Installation Case of Single Point Lubricator

South African Mine

Equipment Name: Belt Installed Product Model: Single Point Lubricator Number of Lubrication Points:30







