**SPARE AND SERVICE PARTS FOR THE MAINTENANCE OF THE HEAVY MACHINES.**

1. **NISSAN PICK UP (DOUBLE CABIN)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| N0 | DESCRIPTION | NUMBER OF MACHINES/ VEHICLES | PART NUMBER | QUANTITY (250 AND 750 HRS SERVICE) |
| 01 | OIL FLTER |  03 | 15208-43G0A | 12 |
| 02 | FUEL FILTER |  03 | 16405-02N10 | 12 |
| 03 | FUEL FILTER |  03 | 16405-01T0A | 12 |
| 04 | AIR CLEANER |  03 |  | 09 |

1. **HINO 500**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| N0 | DESCRIPTION | NUMBER OF MACHINES/ VEHICLES | PART NUMBER | QUANTITY (250 AND 750 HRS SERVICE) |
| NO | DESCRITON | NUMBER OF MACHINES/ VEHICLES | PART NUMBER | QUANTITY PERTER |
| 01 | OIL FILTER | 04 | 15907-1733 | 16 |
| 02 | FUEL FILTER | 04 | S23401-1580 | 16 |
| 03 | WATER SEPARATOR | 04 | S2340-11730 | 16 |
| 04 | AIR CLEANER | 04 | S1780-13360 | 08 |

1. **HINO 700**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| N0 | DESCRIPTION | NUMBER OF MACHINES/ VEHICLES | PART NUMBER | QUANTITY (250 AND 750 HRS SERVICE) |
| 01 | OIL FILTER | 03 | S1560-7221 | 9 |
| 02 | OIL FILTER | 03 | S1560-72261 | 9 |
| 03 | FUEL FILTER | 03 | S2340-11690 | 9 |
| 04 | FUEL FILTER | 03 | S2340-11730 | 9 |
| 05 | FILTER TRANS | 03 | S34EO-E0060 | 9 |
| 06 | KIT AIR CLEANER | 03 | S1750-13450 | 9 |

1. **CAT D6R**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| N0 | DESCRIPTION | NUMBER OF MACHINES/ VEHICLES | PART NUMBER | QUANTITY (250 AND 750 HRS SERVICE) |
| 01 | OIL FILTER | 01 | 1R-1808 | 3 |
| 02 | FUEL FILTER | 01 |  1R-0762 | 3 |
| 03 | WATER SEPARATOR | 01 |  326-1644 | 3 |
| 04 | AIR CLEANER | 01 | 61-2501 | 2 |
| 05 | AIR CLEANER | 01 | 61-2502 | 2 |

**HARD PENETRATING TOOLS**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| N0 | DESCRIPTION | NUMBER OF MACHINES/ VEHICLES | PART NUMBER | QUANTITY (250 AND 750 HRS SERVICE) |
| 01 | CUTTING BLADE | 01 | 364-5490 | 2 |
| 02 | END BIT(RH) | 01 | 9W-8874 | 2 |
| 03 | END BIT(LH) | 01 | 9W-8875 | 2 |
| 04 | BOLT | 01 | 5J-4773 | 100 |
| 05 | NUTS | 01 | 2J-3706 | 100 |
| 06 | WASHERS | 01 | 5P-8248 | 100 |

1. **CASE DOZER**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| N0 | DESCRIPTION | NUMBER OF MACHINES/ VEHICLES | PART NUMBER | QUANTITY (250 AND 750 HRS SERVICE) |
| 01 | OIL FILTER | 02 | 84228488 | 06 |
| 02 | FUEL FILTER | 02 | 84273566 | 06 |
| 03 | FUEL FILTER | 02 | 84412164 | 06 |
| 04 | HYDAULIC | 02 | 47853564 | 06 |
| 05 | AIR CLEANER | 02 | 47850029 | 02 |
| 06 | AIR CLEANER | 02 | 47850030 | 02 |

**HARD PENETRATING TOOL**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| N0 | DESCRIPTION | NUMBER OF MACHINES/ VEHICLES | PART NUMBER | QUANTITY (250 AND 750 HRS SERVICE) |
| 01 | CUTTING EDGE | 02 | 76090678 | 04 |
| 02 | CUTTING EDGE | 02 | 76090680 | 04 |
| 03 | BLADE | 02 | 84475988 | 04 |
| 04 | BLADE | 02 | 84475994 | 08 |
| 05 | BOLT | 02 | 8273530 | 50 |
| 06 | WASHER | 02 | 14497131 | 60 |
| 07 | NUT | 02 | 12164321 | 60 |
| 08 | BOLT | 02 | 8282270 | 40 |

1. **KOMATSU D65EX**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| N0 | DESCRIPTION | NUMBER OF MACHINES/ VEHICLES | PART NUMBER | QUANTITY (250 AND 750 HRS SERVICE) |
| 01 | ENGINE OL | 02 | 6742-01-4540 | 6 |
| 02 | FUEL FILTER | 02 | 600-319-3750 | 6 |
| 03 | FUL FILTERE | 02 | 600-319-3610 | 6 |
| 04 | AIR CLEANER | 02 | 600-185-5110 | 6 |
| 05 | SCREEN | 02 | 600-311-9971 | 6 |
| 06 | BREATHER | 02 | 421-60-35170 | 6 |
| 07 | STRAINER | 02 | 07058-00010 | 6 |
| 08 | STRAINER | 02 | 14X-49-12310 | 6 |
| 09 | STRAINER | 02 | 14X-10-11712 | 6 |
| 10 | ELEMENT | 02 |  421-60-35170 | 6 |

**HARD PENETRATING TOOL**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| N0 | DESCRIPTION | NUMBER OF MACHINES/ VEHICLES | PART NUMBER | QUANTITY (250 AND 750 HRS SERVICE) |
| 01 | BLADES | 02 | 130-70-41130 | 20 |
| 02 | BLADE | 02 | 130-920-2180 | 20 |
| 02 | EDGES RH | 02 | 175-71-22272 | 20 |
| 03 | EDGES LH | 02 | 175-71-22282 | 20 |
| 04 | BOLT | 02 | 02090-11270 | 200 |
| 05 | NUT | 02 | 02290-11219 | 200 |
| 06 | WASHER | 02 |  | 200 |
| 07 | BOLT | 02 | 02090-11495 | 100 |
| 08 | NUT | 02 | 02090-11422 | 100 |
| 09 | WASHER | 02 | 01643-2224 | 100 |

1. **KOMATSU GRADER GD 663A**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| N0 | DESCRIPTION | NUMBER OF MACHINES/ VEHICLES | PART NUMBER | QUANTITY (250 AND 750 HRS SERVICE) |
| 01 | OIL FILTER | 01 | 6136-51-5121 | 3 |
| 02 | FUEL FILTER | 01 | 600-311-8321 | 3 |
| 03 | CORROSION | 01 | 600-411-1151 | 3 |
| 04 | GUIDE | 01 | 232-70-12430 | 12 |
| 05 | GUIDE | 01 | 232-70-12420 | 12 |

1. **KOMATSU GRADE GD555**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| N0 | DESCRIPTION | NUMBER OF MACHINES/ VEHICLES | PART NUMBER | QUANTITY (250 AND 750 HRS SERVICE) |
| 01 | OIL FILTER | 02 | 600-51-5142 | 06 |
| 02 | FUEL FILTER | 02 | 600-311-3620 | 06 |
| 03 | CORROSIN | 02 | 600-411-1150 | 06 |
| 04 | FUEL FILTER | 02 | 600-311-3750 | 06 |
| 05 | AIR CLEANER | 02 |  | 02 |
| 06 | AIR CLEANER | 02 |  | 02 |
| **HARD PENETRATING TOOL** |
| 01 | CUTTING EDGE | 02 | 234-70-12193 | 04 |
| 02 | CUTTING EDGE | 02 | 234-70-12143 | 04 |
| 03 | END BIT | 02 | 232-70-52190 | 10 |
| 04 | SHEAR PIN | 02 | 234-71-13350 | 20 |
| 05 | BOLT | 02 | 232-70-12450 | 100 |
| 06 | NUT | 02 | 232-70-12480 | 100 |
| 07 | WASHER | 02 | 01643-31645 | 100 |

1. **SAKAI VIBRATOR**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| N0 | DESCRIPTION | NUMBER OF MACHINES/ VEHICLES | PART NUMBER | QUANTITY (250 AND 750 HRS SERVICE) |
| 01 | OIL FILTER | 03 | 4031-96002 | 06 |
| 02 | FUEL FILTER | 03 | 4421-39001 | 06 |
| 03 | FUEL FILTER | 03 | 4031-96001 | 06 |
| 04 | FUEL FILTER | 03 | 26550005 | 06 |
| 05 | AIR CLEANER | 03 |  | 03 |
| 06 | AIR CLEANER | 03 |  | 03 |

1. **KOMATSU EXCAVATOR PC 300**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 01 | OIL FILTER | 01 | 6742—01-4540 | 6 |
| 02 | FUEL FILTER | 01 | 600-311-3150 | 6 |
| 03 | CORROSION | 01 | 600-411-5110 | 6 |
| 04 | AIR CLEANER | 01 | 600-185-4210 | 3 |
| **HARD PENETRATIN TOOL** |
| 01 | BUCKET TOOTH | 1 | 207-70-34212 | 40 |
| 02 | RUBBER LOCKS | 1 | 207-70-34221 | 40 |
| 03 | LOCK PIN | 1 | 205-70-74291 | 40 |

1. **HITACHI WHEEL LOADER ZW 180**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| N0 | DESCRIPTION | NUMBER OF MACHINES/ VEHICLES | PART NUMBER | QUANTITY (250 AND 750 HRS SERVICE) |
| 01 | OIL FILTER | 02 | 263F1-07101 | 10 |
| 02 | FUEL FILTER | 02 | 263F1-07041 | 10 |
| 03 | FUEL FILTER | 02 | 263F-07031 | 10 |
| 04 | AIR CLEANER | 02 | 26362-37051 | 03 |
| 05 | AIR CLEANER | 02 | 20801-03471 | 03 |
| HARD PENETRATING |
| 01 | BUCKET TIPS | 03 | 56600-51492 | 06 |
| 02 | BUCKET TIP | 03 | 56600-51482 | 06 |
| 03 | BUCKET TOOTH | 03 | 5660051382 | 36 |
| 04 | BOLT | 03 | 56700-50661 | 50 |
| 05 | NUT | 03 | 56600-51351 | 50 |

1. **EXCAVATOR HITACHI 330-3G**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| N0 | DESCRIPTION | NUMBER OF MACHINES/ VEHICLES | PART NUMBER | QUANTITY (250 AND 750 HRS SERVICE) |
| 01 | OIL FILTER | 02 | 4485262 | 20 |
| 02 | FUEL FILTER | 02 | 4226736 | 40 |
| 03 | FUEL FILTER | 02 |  | 12 |
| 04 | AIR CLEANER | 02 | 4459549 | 6 |
| 05 | AIR CLEANER | 02 | 4459548 | 6 |
| **HARD PENETRATING** |
| 01 | BUCKET TOOTH | 02 | 4512365 | 45 |
| 02 | PIN LOCKS | 02 | 3512366 | 45 |
| 03 | RUBBER LOCKS | 02 | 4501625 | 45 |
| 04 | SIDE CUTTER | 02 | 2021233 | 06 |
| 05 | SIDE CUTTER | 02 | 2021232 | 06 |
| 06 | BOLT | 02 | J932275 | 36 |
| 07 | WASHER | 02 | A590922 | 36 |
| 08 | NUT | 02 | J951022 | 36 |
| 09 | ROLLER | 02 | 9253782 | 30 |
| 10 | UPPER ROLLER | 02 | 9245169 | 08 |
| 11 | BOLT | 02 | 4648103 | 84 |
| 12 | BOLT | 02 | 4647124 | 32 |
| 13 | IDLER | 02 |  9245615 | 04 |

1. **KOMATSU WHEEL LOADER WA 250**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| N0 | DESCRIPTION | NUMBER OF MACHINES/ VEHICLES | PART NUMBER | QUANTITY (250 AND 750 HRS SERVICE) |
| 01 | BUCKET TIP | 02 | 202-70-12130 | 32 |
| 02 | PIN LOCK | 02 |  | 32 |
| 03 | RING LOCK | 02 |  | 32 |

1. **EXCAVATOR CASE XB 290 AND 300 XB**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| N0 | DESCRIPTION | NUMBER OF MACHINES/ VEHICLES | PART NUMBER | QUANTITY (250 AND 750 HRS SERVICE) |
| 01 | OIL FILTER | 02 | 51441635 | 06 |
| 02 | FUEL FILTER | 02 | 47585451 | 06 |
| 03 | FUEL FILTER | 02 | 47518440 | 06 |
| 04 | FUEL FILTER | 02 | 8983129180 | 6 |
| 05 | AIR CLEANER | 02 | 87682984 | 4 |
| **HARD PENETRATING** | **BUCKET PO300 SAE 1.8M** |  |
| 01 | BUCKET TOOTH | 02 | 389-5745/7T3402 | 50 |
| 02 | PIN LOCK | 02 | 116-7408 | 50 |
| 03 | RETAINER | 02 | 116-7409 | 50 |

**OILS AND LUBRICANTS FOR THE MAINTENANCE OF THE HEAVY MACHINES.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Description** | **Unit** | **Unit qty for 10,000m3 VT.** | **Unit qty for 20,000m3 VT.** |
| **Bull Dozer – (CASE DOZER and KOMATSU D65EX)** | **Day** |  | **7** | **10** |
| Oils/ Engine – (RIMULLA R4 x 15W 40 APIC1-4) | litres/day | litres | 105 | 150 |
| Oils/ Transmission – (SPIRAX 140 | litres/day | litres | 128 | 183 |
| Hydraulic oils - (TELLUS S2 M46 20L) | litres/day | litres | 128 | 183 |
| Grease (GADUS S2 V220 2) | litres/day | litres | 23 | 33 |
| **Excavator – (EXCAVATOR HITACHI 330-3G and KOMATSU EXCAVATOR PC 300)** | **Day** |  |  |  |
| Oils/ Engine – (RIMULLA R4 x 15W 40 APIC1-4) | litres/day | litres | 105 | 150 |
| Oils/ Transmission – (SPIRAX 140)  | litres/day | litres | 128 | 183 |
| Hydraulic oils - (TELLUS S2 M46 20L) | litres/day | litres | 128 | 183 |
| Grease (GADUS S2 V220 2) | litres/day | litres | 23 | 33 |
| **Tipper Truck – (HINO 500 and HINO 700)** | **Day** |  |  |  |
| Oils/ Engine – (RIMULLA R4 x 15W 40 APIC1-4) | litres/day | litres | 56 | 80 |
| Oils/ Transmission – (SPIRAX 140)  | litres/day | litres | - | - |
| Grease (GADUS S2 V220 2) | litres/day | litres | - | - |
| **Water Bowser – (HINO 700)** | **Day** |  |  |  |
| Oils/ Engine – (RIMULLA R4 x 15W 40 APIC1-4) | litres/day | litres | 56 | 80 |
| Oils/ Transmission – (SPIRAX 140)  | litres/day | litres | - | - |
| Grease (GADUS S2 V220 2) | litres/day | litres | - | - |
| **Service Truck and Van – (NISSAN PICK UP (DOUBLE CABIN)** | **Day** |  |  |  |
| Oils/ Engine – (RIMULLA R4 x 15W 40 APIC1-4) | litres/day | litres | 56 | 80 |
| Oils/ Transmission – (SPIRAX 140)  | litres/day | litres |  | - |
| Grease (GADUS S2 V220 2) | litres/day | litres |  | - |
| **Motor Grader – (KOMATSU GRADER GD 663A and KOMATSU GRADE GD555)** | **Day** |  |  |  |
| Oils/ Engine – (RIMULLA R4 x 15W 40 APIC1-4) | liters/day | liters | 105 | 150 |
| Oils/ Transmission – (SPIRAX 140)  | litres/day | litres | 128 | 183 |
| Hydraulic oils - (TELLUS S2 M46 20L) | litres/day | litres | 128 | 183 |
| Grease (GADUS S2 V220 2) | litres/day | litres | 23 | 33 |
| **Low Bed – (HINO 700 and MAN DIESEL)** |   |   |  |  |
| Oils/ Engine – (RIMULLA R4 x 15W 40 APIC1-4) | **No.** |  |  |  |
| Oils/ Transmission – (SPIRAX 140)  | litres/day | litres | 8 | 8 |
| Grease (GADUS S2 V220 2) | litres/day | litres | 1 | 1 |
| Fuel – (Diesel) | litres/day | litres | 2,437 | 2,437 |
| General service + body maintenance | item/day | Lumpsum | 1 | 1 |
| **WHEEL LOADER – (HITACHI WHEEL LOADER ZW 180 and KOMATSU WHEEL LOADER WA 250)** | **Day** |  |  |  |
| Oils/ Engine – (RIMULLA R4 x 15W 40 APIC1-4) | litres/day | litres | 105 | 150 |
| Oils/ Transmission – (SPIRAX 140)  | litres/day | litres | 128 | 183 |
| Hydraulic oils - (TELLUS S2 M46 20L) | litres/day | litres | 128 | 183 |
| Grease (GADUS S2 V220 2) | litres/day | litres | 23 | 33 |