Group	1	Safety hints	1-1
Group	2	Specifications	1-5
Group	3	Periodic replacement	1-13

GROUP 1 SAFETY HINTS

Careless performing of the easy work may cause injuries.

Take care to always perform work safely, at least observing the following.

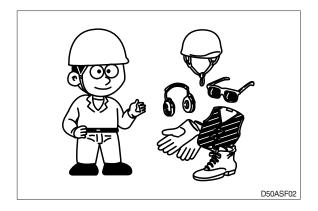
 Oil is a dangerous substance. Never handle oil, grease or oily clothes in places where there is any fire of flame.

As preparation in case of fire, always know the location and directions for use of fire extinguishers and other fire fighting equipment.

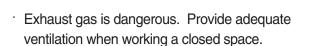
 Wear well-fitting helmet, safety shoes and working clothes. When drilling, grinding or hammering, always wear protective goggles. Always do up safety clothes properly so that they do not catch on protruding parts of truck. Do not wear oily clothes.

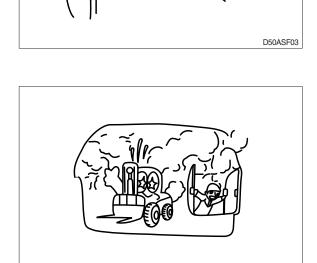
When checking, always release battery plug.

DS0ASF01

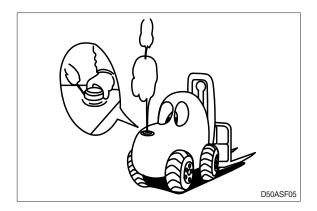


 Flames should never be used instead of lamps. Never use a naked flame to check leaks or the level of oil or electrolyte.





- A Be particularly careful when removing the radiator cap and the hydraulic oil tank filler cap, if this is done immediately after using the truck, there is a danger that boiled oil may spurt out.
- The procedure for releasing the hydraulic pressure is as follows : lower the fork to the ground, and stop the engine, move the control levers to each position two or three times.
- When working on top of the truck, be careful not to lose your balance and fall.





 Hand a caution sign in the operator's compartment (For example **Do not start** or **Maintenance in** progress).

This will prevent anyone from starting or moving the truck by mistake.

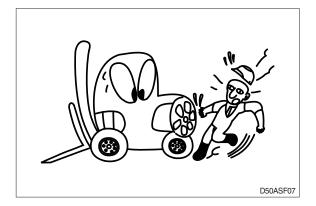
A It is extremely dangerous to try to check the fan belt tension while he engine is running.

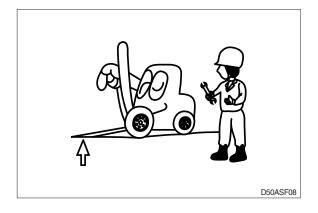
When inspecting the engine is running parts, or near such parts, always stop the engine first.

Before checking or servicing accumulator or piping, depress brake pedal repeatedLy to release pressure.

Park the truck on firm, flat ground.
 Lower the fork to the ground and stop the engine.

Return each lever to **NEUTRAL** and apply the brake lock.



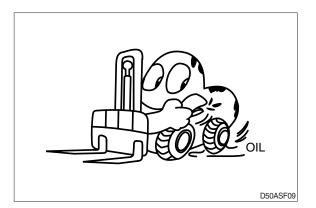


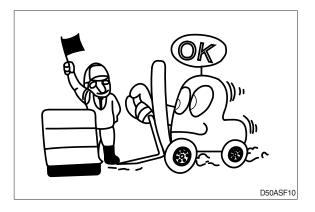
 Immediately remove any oil or grease on the floor of the operator's compartment, or on the handrail. It is very dangerous if someone slips while on the truck.

 When working with others, choose a group leader and work according to his instructions.
 Do not perform any maintenance beyond the agreed work.

 Always remember that the hydraulic oil circuit is under pressure. When feeding or draining the oil or carrying out inspection and maintenance, release the pressure first.

 Unless you have special instructions to the contrary, maintenance should always be carried out with the engine stopped. If maintenance is carried out with the engine running, there must be two men present : one sitting in the operator's seat and the other one performing the maintenance. In such a case, never touch any moving part.







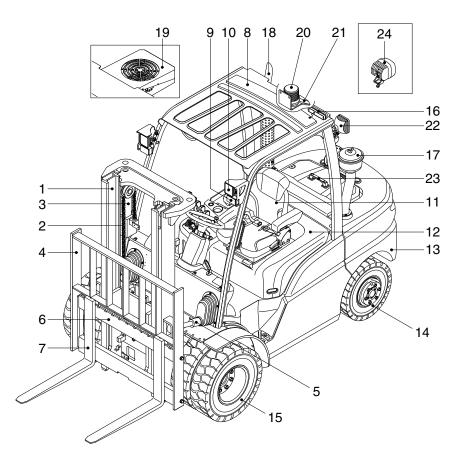
- Thoroughly clean the truck. In particular, be careful to clean the filler caps, grease fittings and the area around the dipsticks. Be careful not to let any dirt or dust into the system.
- · Always use HYUNDAI Forklift genuine parts for replacement.
- Always use the grades of grease and oil recommended by HYUNDAI Forklift. Choose the viscosity specified for the ambient temperature.
- Always use pure oil or grease, and be sure to use clean containers.
- When checking or changing the oil, do it in a place free of dust, and prevent any dirt from getting into the oil.
- [.] Before draining the oil, warm it up to a temperature of 30 to 40 °C.
- [.] After replacing oil, filter element or strainer, bleed the air from circuit.
- [.] When the strainer is located in the oil filler, the strainer must not be removed while adding oil.
- When changing the oil filter, check the drained oil and filter for any signs of excessive metal particles or other foreign materials.
- When removing parts containing O-ring, gaskets or seals, clean the mounting surface and replace with new sealing parts.
- [.] After injecting grease, always wipe off the oil grease that was forced out.
- [•] Do not handle electrical equipment while wearing wet places, as this can cause electric shock.
- [•] During maintenance do not allow any unauthorized person to stand near the truck.
- [•] Be sure you fully understand the contents of the operation. It is important to prepare necessary tools and parts and to keep the operating area clean.
- When checking an open gear case there is a risk of dropping things in. Before removing the covers to inspect such cases, empty everything from your pockets. Be particularly careful to remove wrenches and nuts.
- Way to use dipstick

Push the dipstick fully into the guide, and then pull out.

Carrying out other difficult maintenance work carelessly can cause unexpected accidents. If you consider the maintenance is too difficult, always request the HYUNDAI Forklift distributor to carry out it.

GROUP 2 SPECIFICATIONS

1. MAJOR COMPONENTS



- 1 Mast
- 2 Lift chain
- 3 Lift cylinder
- 4 Backrest
- 5 Tilt cylinder
- 6 Lift bracket
- 7 Forks
- 8 Overhead guard

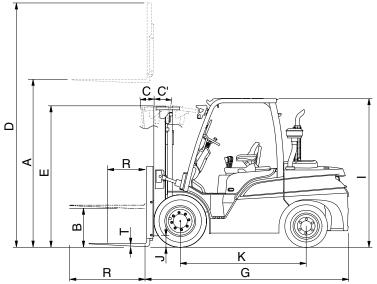
- 9 Turn signal lamp
- 10 Head lamp
- 11 Operator's seat
- 12 Bonnet
- 13 Counterweight
- 14 Rear wheel
- 15 Front wheel
- 16 Rear combination lamp

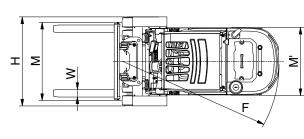
- 17 Precleaner
- 18 Silencer
- 19 Air conditioner (opt)
- 20 Beacon lamp (opt)
- 21 Camera (opt)
- 22 Rear work lamp (opt)
- 23 Rear handle with horn (opt)

35D9FOM54

24 Blue spot (opt)

2. SPECIFICATIONS





35D9FSP01

Model		Unit	35D-9F	40D-9F	45D-9F	50DA-9F
Capacity			3500 (8000)	4000 (9000)	4500 (10000)	5000 (11000)
enter	R	mm (in)	600 (24")	←	←	←
t (Unloaded)		kg (lb)	5893 (12992)	6438 (14193)	6894 (15199)	7298 (16089)
Lifting height	А	mm (ft · in)	3020 (9' 11")	←	←	2930 (9' 7")
Free lift	В	mm (in)	120 (4.7")	←	←	←
Lifting speed (Unload/Load)		mm/sec	540/500	540/490	540/480	460/410
Lowering speed (Unload/Loa	ad)	mm/sec	500/500	←	←	←
L×W×T	L,W,T	mm (in)	1070×122×50 (42×4.8×2)	1070×150×50 (42×5.9×2)	1220×150×50 (48×5.9×2)	$\begin{array}{c} 1200 \times 150 \times 60\\ (47 \times 5.9 \times 2.4) \end{array}$
Tilt angle (forward/backward)	C/C'	degree	8/10	←	←	←
Max height	D	mm (ft ⋅ in)	4234 (13' 11")	←	←	4147 (13' 7")
Min height	Е	mm (ft · in)	2235 (7' 4")	2220 (7' 3")	←	\leftarrow
Travel speed (Unload)		km/h (mph)	26.6 (16.5)	25.7 (16.0)	25.6 (15.9)	←
Gradeability (Load)		%	38.5	34.5	31.3	28.9
Min turning radius (Outside) F		mm (ft · in)	2867 (9' 5")	2916 (9' 7")	2964 (9' 9")	3009 (9' 10")
Operating pressure		kgf/cm² (psi)	210 (2990)	←	←	←
Hydraulic oil tank		l (U.S. gal)	70 (18.5)	←	←	←
Fuel tank		l (U.S. gal)	95 (25.1)	←	←	←
l length	G	mm (ft ⋅ in)	3225 (10' 7")	←	3264 (10' 9")	3300 (10' 10")
l width	Н	mm (ft · in)	1373 (4' 6")	1746 (5' 9")	←	←
Overhead guard height		mm (ft · in)	*12220 (7' 3") *22350 (7' 7")	*12210 (7' 3") *22340 (7' 7")	←	←
Ground clearance J		mm (in)	170 (6.7")	155 (6.1")	←	\leftarrow
base	К	mm (ft∙in)	2000 (6' 7")	←	←	←
Wheel tread front/rear M/M'		mm (ft∙in)	1132/1140 (3' 9"/3' 9")	1282/1140 (4' 2"/3' 9")	←	←
rawbar pull (load)		kg (lb)	3768 (8307)	3797 (8371)	3801 (8380)	3807 (8393)
	ity eenter t (Unloaded) Lifting height Free lift Lifting speed (Unload/Load) Lowering speed (Unload/Load) Lowering speed (Unload/Load) Lowering speed (Unload/Load) Lowering speed (Unload/Load) Max height Min height Travel speed (Unload) Max height Travel speed (Unload) Gradeability (Load) Min turning radius (Outside) Operating pressure Hydraulic oil tank Fuel tank I length I width ead guard height d clearance base tread front/rear	ity eenter R I (Unloaded) Lifting height A Free lift B Lifting speed (Unload/Load) Lowering speed (Unload/Load) Lowering speed (Unload/Load) Lowering speed (Unload/Load) Lowering speed (Unload/Load) L×W×T L,W,T Tilt angle (forward/backward) C/C' Max height D Min height D Min height E Travel speed (Unload) Gradeability (Load) Gradeability (Load) Min turning radius (Outside) F Operating pressure Hydraulic oil tank Fuel tank I length G I width H ead guard height I d clearance J base K tread front/rear M/M'	itykg (lb)renterRmm (in)t (Unloaded)Kg (lb)Lifting heightAmm (ft in)Free liftBmm (in)Lifting speed (Unload/Load)mm/secLowering speed (Unload/Load)mm/secLowering speed (Unload/Load)mm/secL × W × TL,W,Tmm (in)Tilt angle (forward/backward)C/C'Max heightDmm (ft · in)Min heightEmm (ft · in)Travel speed (Unload)%Min turning radius (Outside)Fmm (ft · in)Operating pressurekgf/cm² (psi)Hydraulic oil tankl<(U.S. gal)	ity kg (lb) 3500 (8000) enter R mm (in) 600 (24") kg (lb) 5893 (12992) kg (lb) 5893 (12992) Lifting height A mm (in) 3020 (9' 11") Free lift B mm (in) 120 (4.7") Lifting speed (Unload/Load) mm/sec 540/500 Lowering speed (Unload/Load) mm/sec 500/500 L×W×T L,W,T mm (in) 1070×122×50 (42×4.8×2) Tilt angle (forward/backward) C/C' degree 8/10 Max height D mm (ft· in) 4234 (13' 11") Min height E mm (ft· in) 2235 (7' 4") Travel speed (Unload) Km/h (mph) 26.6 (16.5) Gradeability (Load) % 38.5 Min turning radius (Outside) F mm (ft· in) 2867 (9' 5") Operating pressure kg//cm² (psi) 210 (2990) Hydraulic oil tank l (U.S. gal) 95 (25.1) I length G mm (ft· in) 3225 (10' 7")	ity kg (b) 3500 (8000) 4000 (9000) enter R mm (in) 600 (24") \leftarrow k (Unloaded) kg (b) 5893 (12992) 6438 (14193) Lifting height A mm (in) 120 (4.7") \leftarrow Free lift B mm (in) 120 (4.7") \leftarrow Lifting speed (Unload/Load) mm/sec 540/500 540/490 Lowering speed (Unload/Load) mm/sec 500/500 \leftarrow L W X T L,W,T mm (in) $1070 \times 122 \times 50$ ($42 \times 4.8 \times 2)$ $(42 \times 5.9 \times 2)$ Tit angle (forward/backward) C/C' degree $8/10$ \leftarrow Max height D mm (ft·in) $2235 (7' 4")$ $2220 (7' 3")$ Travel speed (Unload) Km/h (mph) $26.6 (16.5)$ $25.7 (16.0)$ Gradeability (Load) \checkmark mm (ft·in) $2867 (9' 5")$ $2916 (9' 7")$ Operating pressure kg/cm² (psi) $210 (2990)$ \leftarrow Hudralit G mm (ft·in) $3225 (10' 7")$ \leftarrow <tr< td=""><td>ity kg (b) 3500 (8000) 4000 (9000) 4500 (10000) enter R mm (in) 600 (24") \leftarrow \leftarrow it (Unloaded) kg (b) 5893 (12992) 6438 (14193) 6894 (15199) Lifting height A mm (fi-in) 3020 (9' 11") \leftarrow \leftarrow Free lift B mm (in) 120 (4.7") \leftarrow \leftarrow Lifting speed (Unload/Load) mm/sec 540/500 540/490 540/480 Lowering speed (Unload/Load) mm/sec 500/500 \leftarrow \leftarrow L×W×T L,W,T mm (in) $1070 \times 122 \times 50$ (42 × 4.8 × 2) $1070 \times 150 \times 50$ (42 × 5.9 × 2) $1220 \times 150 \times 50$ (48 × 5.9 × 2) Tit angle (forward/backward) C/C' degree $8/10$ \leftarrow \leftarrow Max height D mm (ft-in) $2235 (7' 4")$ $2220 (7' 3")$ \leftarrow Gradeability (Load) $\%$ 38.5 34.5 31.3 Min turning radius (Outside) F mm (ft-in) $2867 (9' 5")$ $2916 (9' 7")$ 2964</td></tr<>	ity kg (b) 3500 (8000) 4000 (9000) 4500 (10000) enter R mm (in) 600 (24") \leftarrow \leftarrow it (Unloaded) kg (b) 5893 (12992) 6438 (14193) 6894 (15199) Lifting height A mm (fi-in) 3020 (9' 11") \leftarrow \leftarrow Free lift B mm (in) 120 (4.7") \leftarrow \leftarrow Lifting speed (Unload/Load) mm/sec 540/500 540/490 540/480 Lowering speed (Unload/Load) mm/sec 500/500 \leftarrow \leftarrow L×W×T L,W,T mm (in) $1070 \times 122 \times 50$ (42 × 4.8 × 2) $1070 \times 150 \times 50$ (42 × 5.9 × 2) $1220 \times 150 \times 50$ (48 × 5.9 × 2) Tit angle (forward/backward) C/C' degree $8/10$ \leftarrow \leftarrow Max height D mm (ft-in) $2235 (7' 4")$ $2220 (7' 3")$ \leftarrow Gradeability (Load) $\%$ 38.5 34.5 31.3 Min turning radius (Outside) F mm (ft-in) $2867 (9' 5")$ $2916 (9' 7")$ 2964

*1: Low *2: High

3. SPECIFICATION FOR MAJOR COMPONENTS

1) ENGINE

Item	Unit	Specification
Model	-	Kubota V3800-TIE4
Туре	-	Vertical, 4 cycle DI, Tier 4 final diesel engine
Cooling Method	-	Water cooling
Number of cylinders and arrangement	-	4 cylinders, In-line
Firing order	-	1-3-4-2
Combustion chamber type	-	Direct injection
Cylinder bore X stroke	mm (in)	100×120 (3.94×4.72)
Piston displacement	cc (cu in)	3769 (230)
Compression ratio	-	17.0 :1
Rated gross horse power	hp/rpm	74.3/2200
Maximum torque at rpm	kgf ∙ m/rpm	31.6/1500
Engine oil quantity	l (U.S.gal)	13.2 (3.49)
Dry weight	kg (lb)	316 (697)
High idling speed	rpm	2400
Low idling speed	rpm	850
Rated fuel consumption	g/kw.hr	222
Starting motor	V-kW	12-3.0
Alternator	V-A	12-80
Battery	V-AH	12-100
Fan belt deflection	mm (in)	10~12 (0.40~0.47)

2) MAIN PUMP

Item	Unit	Specification
Туре	- Fixed displacement ge	
Capacity	cc/rev	46.1
Maximum operating pressure	kgf/cm² (psi)	235 (3340)
Rated speed (Max/Min)	rpm	3000/600

3) MAIN CONTROL VALVE

Item	Unit	Specification
Туре	-	Sectional
Operating method	-	Mechanical
Relief valve pressure (Main/Aux)	kgf/cm² (psi)	210/150 (2990/2130)
Flow capacity	lpm	125

4) STEERING UNIT

Item	Unit	Specification	
Туре	-	Load sensing/Non load reaction/Dynamic signal	
Capacity	cc/rev	160	
Rated flow	lpm	22.7	
Relief pressure	kgf/cm ²	135	

5) POWER TRAIN DEVICES

Item			Specification		
	Model		DE 280 (KAPEC)		
Torque converter	Туре		3 Element, 1 stage, 2 pha	ase	
	Stall ratio		2.25 : 1		
	Туре		Power shift		
	Gear shift(FWD/	(REV)	2/2		
Transmission	Control		Electrical single lever type	e	
	O verke v d verkie	FWD	1st : 2.550	2nd : 1.218	
	Overhaul ratio	REV	1st : 2.550	2nd : 1.218	
Avia	Туре		Front-wheel drive type, fixed location		
Axle	Gear ratio		11.692		
	Q'ty(FR/RR)		Single : 2/2, Double : 4/2		
Wheels	Front(driv(o)	Single	3.5 ton : 8.25-15-14 PR	4.0~5.0 ton : 300-15-18 PR	
vvneeis	Front(drive)	Double	7.50-16-12 PR		
	Rear(steer)		3.5 ton : 7.00-12-12 PR	4.0~5.0 ton : 7.00-12-14 PR	
	Travel		Front wheel, wet disk brake		
Brakes	Parking		Ratchet, drum brake (DIC axle) Wet disk brake, negative (TNA axle)		
	Туре		Full hydraulic, power steering		
Steering	Steering angle		74.8° to both right and left angle, respectively		
	Relief valve presssure		135 kgf/cm ² (1920 psi)		

NO		Item	Size	kgf ∙ m	lbf ∙ ft
1		Engine mounting bolt	M12×1.25	6.9±1.4	49.9±10.1
2	Engine	Engine bracket mounting nut	M10×1.5	6.9±1.4	49.9±10.1
3		Radiator mounting bolt, nut	M10×1.5	6.9±1.4	49.9±10.1
4		MCV mounting bolt, nut	M12×1.75	12.8±3.0	92.6±21.7
5	Hydraulic system	Steering unit mounting bolt	M10×1.5	4.0±0.5	28.9±3.6
6	Joyotom	Hydraulic pump mounting bolt	M14×1.5	21.0±3.1	152±22.4
7		Transmission mounting bolt, nut	M16×2.0	7.5±1.5	54.2±10.8
8		Torque converter mounting bolt	M10×1.5	6.9±1.4	50±10
9	Power	Drive axle mounting bolt, nut	M24×2.0	62.5±9.5	452±68.7
10	train	Drive shaft mounting bolt	3/8-24 UNF	7.0±0.7	50.6±5.1
11	system	Steering axle mounting bolt, nut	M14×2.0	19.6±2.9	142±21
12		Front wheel mounting nut	M22×1.5	62.0±9.3	448±67.3
13		Rear wheel mounting nut	M22×1.5	61.2±9.3	442±67.3
14		Counterweight mounting bolt	M30×3.5	199±29.9	1439±216
15]	Operator's seat mounting nut	M 8×1.25	2.5±0.5	18.1±3.6
16	Others	Head guard mounting bolt	M12×1.75	12.8±3.0	92.6±21.7
17		Cabin mounting bolt	M12×1.75	12.8±3.0	92.6±21.7
18		Mast mounting bolt	M18×2.5	41.3±6.2	229±44.8

4. TIGHTENING TORQUE FOR MAJOR COMPONENTS

5. TORQUE CHART

Use following table for unspecified torque.

1) BOLT AND NUT

(1) Coarse thread

Dallada	8	т	10	T
Bolt size	kgf ∙ m	lbf ⋅ ft	kgf ∙ m	lbf ⋅ ft
M 6 × 1.0	0.85 ~ 1.25	6.15 ~ 9.04	1.14 ~ 1.74	8.2 ~ 12.6
M 8 × 1.25	2.0 ~ 3.0	14.5 ~ 21.7	2.73 ~ 4.12	19.7 ~ 29.8
M10 $ imes$ 1.5	4.0 ~ 6.0	28.9 ~ 43.4	5.5 ~ 8.3	39.8 ~ 60
M12 $ imes$ 1.75	7.4 ~ 11.2	53.5 ~ 79.5	9.8 ~ 15.8	71 ~ 114
M14 $ imes$ 2.0	12.2 ~ 16.6	88.2 ~ 120	16.7 ~ 22.5	121 ~ 167
M16 $ imes$ 2.0	18.6 ~ 25.2	135 ~ 182	25.2 ~ 34.2	182 ~ 247
M18 $ imes$ 2.5	25.8 ~ 35.0	187 ~ 253	35.1 ~ 47.5	254 ~ 343
M20 $ imes$ 2.5	36.2 ~ 49.0	262 ~ 354	49.2 ~ 66.6	356 ~ 482
M22 $ imes$ 2.5	48.3 ~ 63.3	350 ~ 457	65.8 ~ 98.0	476 ~ 709
M24 $ imes$ 3.0	62.5 ~ 84.5	452 ~ 611	85.0 ~ 115	615 ~ 832
M30 $ imes$ 3.5	124 ~ 168	898 ~ 1214	169 ~ 229	1223 ~ 1655
M36 × 4.0	174 ~ 236	1261 ~ 1703	250 ~ 310	1808 ~ 2242

(2) Fine thread

	8	т	10	Т
Bolt size	kgf ∙ m	lbf ⋅ ft	kgf ∙ m	lbf ⋅ ft
M 8 × 1.0	2.17 ~ 3.37	15.7 ~ 24.3	3.04 ~ 4.44	22.0 ~ 32.0
M10 × 1.25	4.46 ~ 6.66	32.3 ~ 48.2	5.93 ~ 8.93	42.9 ~ 64.6
M12 × 1.25	7.78 ~ 11.58	76.3 ~ 83.7	10.6 ~ 16.0	76.6 ~ 115
M14 $ imes$ 1.5	13.3 ~ 18.1	96.2 ~ 130	17.9 ~ 24.1	130 ~ 174
M16 × 1.5	19.9 ~ 26.9	144 ~ 194	26.6 ~ 36.0	193 ~ 260
M18 × 1.5	28.6 ~ 43.6	207 ~ 315	38.4 ~ 52.0	278 ~ 376
M20 × 1.5	40.0 ~ 54.0	289 ~ 390	53.4 ~ 72.2	386 ~ 522
M22 $ imes$ 1.5	52.7 ~ 71.3	381 ~ 515	70.7 ~ 95.7	512 ~ 692
M24 $ imes$ 2.0	67.9 ~ 91.9	491 ~ 664	90.9 ~ 123	658 ~ 890
M30 × 2.0	137 ~ 185	990 ~ 1338	182 ~ 248	1314 ~ 1795
M36 $ imes$ 3.0	192 ~ 260	1389 ~ 1879	262 ~ 354	1893 ~ 2561

2) PIPE AND HOSE(FLARE TYPE)

Thread size	Width across flat (mm)	kgf ∙ m	lbf ∙ ft
1/4"	19	4	28.9
3/8"	22	5	36.2
1/2"	27	9.5	68.7
3/4"	36	18	130
1"	41	21	152
1-1/4"	50	35	253

3) PIPE AND HOSE(ORFS TYPE)

Thread size	Width across flat (mm)	kgf ⋅ m	lbf ⋅ ft
9/16-18	19	4	28.9
11/16-16	22	5	36.2
13/16-16	27	9.5	68.7
1-3/16-12	36	18	130
1-7/16-12	41	21	152
1-11/16-12	50	35	253

4) FITTING

Thread size	Width across flat (mm)	kgf · m	lbf ⋅ ft
1/4"	19	4	28.9
3/8"	22	5	36.2
1/2"	27	9.5	68.7
3/4"	36	18	130
1"	41	21	152
1-1/4"	50	35	253

6. RECOMMENDED LUBRICANTS

Use only oils listed below or equivalent. Do not mix different brand oil.

			Ambient temperature °C(°F)										
Service point	Kind of fluid	Capacity <i>l</i> (U.S. gal)		-30		20	-10	()		0	20	30	40
			(-58)	(-22))	<i>,</i>	(14)	(32	2) (50	J) (68)	(86)	(104)
		13.2 (3.5)	*SAE 5W-40										
Engine oil pan	Engine oil									5	SAE	30	
						S	AE 10\	N					
			SAE 10W-30										
				SAE 15W-40									
Torque					_								
converter transmission	Transmission oil	12 (3.2)					ATF	DEX	(RON				
	Gear oil	10.5 (2.8)											
Axle							SI	HELI	L DON	AX T	D		
	Hydraulic oil	70 (18.5)				*	ISO V	'G 15	5				
Hydraulic													
tank									SO VG	46			
									19	SO V	G 68	3	
	Diesel fuel ^{*1}	95 (25.1)		*^2	тлл		5 NO.'	1					
Fuel tank						091							
								[ASTI	M D9	/5 ľ	10.2	
Fitting (Grease nipple)	Grease	-				★N	LGI N	0.1					
									Ν	ILGI I	NO.2	2	
					_		_						
Brake reservoir tank	Brake oil	0.5 (0.13)	*AZC	ILLA Z	S10	(Hyc	Iraulic o	il, ISC) VG10)			
					A	ZOL	LAZS	32 (H	Hydrau	lic oil	ISC) VG32	2)
Radiator	Antifreeze : Water	22.3 (5.9)				Ethy	/lene a	lvcol	base r	erma	inen	t type (50:50)
			*Ethyler	ne glycol b	ase p		ent type (6	_	<u></u>				20.00)

NOTES :

- Engine oil should be API classification CJ-4.
- Change the type of engine oil according to the ambient temperature.
- When using oil of different brands from the previous one, be sure to drain all the previous oil before adding the new engine oil.
- *1 : Ultra low sulfur diesel - sulfur content \leq 15 ppm
- ★ : Cold region
- m Russia, CIS, Mongolia

GROUP 3 PERIODIC REPLACEMENT

For operation safety, never fail to perform periodic maintenance or make periodic replacement of the consumable parts listed in the following.

These parts may deteriorate in time and are susceptible to wear. It is difficult to estimate the degree of wear at time of periodic maintenance; therefore, even if no apparent wear is found, always replace with new parts within the prescribed period of replacement (Or earlier if trouble is found). Note that periodic replacement has nothing to do with guarantee service.

No.	Periodical replacement of safety parts	Interval
1	Fuel hose	Every 2 to 4 years
2	Hydraulic pump hose	Every 2 years
3	Power steering hose	Every 2 years
4	Packing, seal, and O-ring of steering cylinder	Every 2 to 4 years
5	Lift chain	Every 2 to 4 years
6	Lift cylinder hose	Every 1 to 2 years
7	Tilt cylinder hose	Every 1 to 2 years
8	Side shift cylinder hose	Every 1 to 2 years
9	Master cylinder and wheel cylinder caps dust seals	Every 1 years
10	Brake hose or tube	Every 1 to 2 years
11	Brake reservoir tank tube	Every 2 to 4 years
12	Intake air line	Every 2 years
13	Coolant hose and clamps	Every 2 years

* Replace the O-ring and gasket at the same time when replacing the hose.

* Replace clamp at the same time if the hose clamp is cracked when checking and replacing hose.