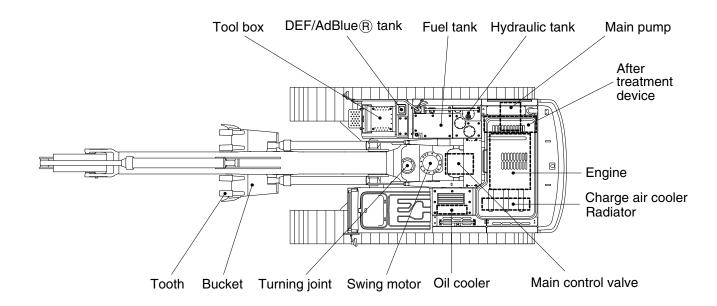
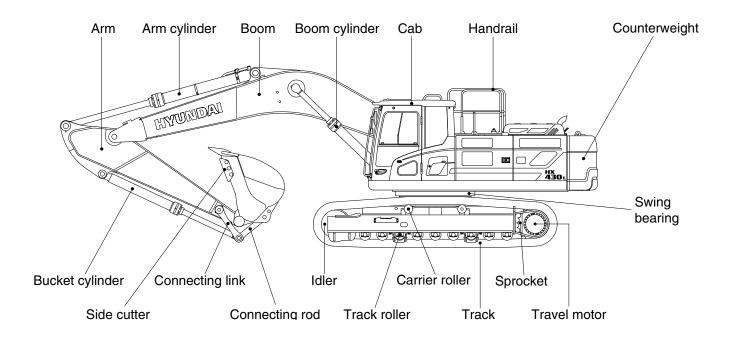
SPECIFICATIONS

1. MAJOR COMPONENT



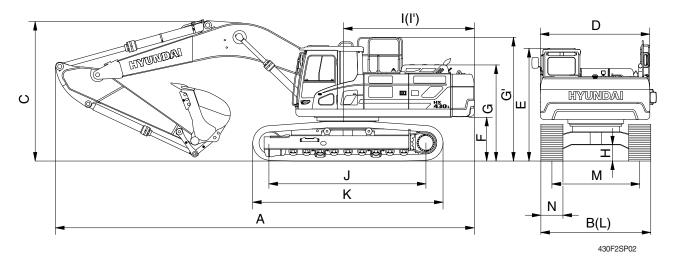


430F2SP01

2. SPECIFICATIONS

1) HX430 L

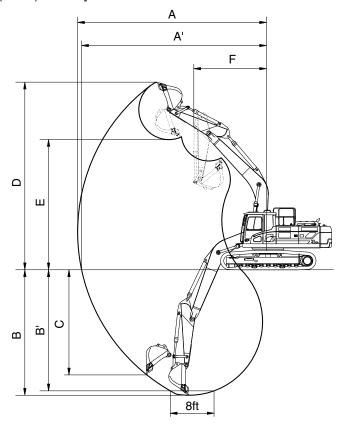
\cdot 6.5 m (21' 4") BOOM and 3.2 m (10' 6") ARM



Description		Unit	Specification
Operating weight		kg (lb)	44120 (97270)
Bucket capacity (SAE heaped), standard		m³ (yd³)	1.90 (2.49)
Overall length	А		11400 (37' 5")
Overall width, with 600 mm shoe	В		3340 (10'11")
Overall height	С		3630 (11' 11")
Superstructure width	D		3095 (10 ' 2")
Overall height of cab	E		3240 (10' 8")
Ground clearance of counterweight	F		1295 (4' 3")
Overall height of engine hood	G		2755 (9' 0")
Overall height of handrail	erall height of handrail G'		3445 (11' 4")
Minimum ground clearance	Н	mm (ft-in)	565 (1' 10")
Rear-end distance	I		3555 (11' 8")
Rear-end swing radius	ľ		3615 (11' 10")
Distance between tumblers	J		4470 (14' 8")
Undercarriage length	K		5462 (17' 11")
Undercarriage width	L		3340 (10' 11")
Track gauge	М		2740 (9' 0")
Track shoe width, standard	N		600 (24")
Travel speed (low/high)		km/hr (mph)	3.0/5.3 (1.9/3.3)
Swing speed		rpm	9.2
Gradeability		Degree (%)	35 (70)
Ground pressure (600 mm shoe)		kgf/cm²(psi)	0.76 (0.81)
Max traction force		kgf (lbf)	33500 (73854)

3. WORKING RANGE

1) HX430 L [6.5 m (21' 4") BOOM]



430F2SP03

Description		2.6 m (8' 6") Arm	3.2 m (10' 6") Arm
Max digging reach	А	10750 mm (35' 3")	11160 mm (36' 7")
Max digging reach on ground	A'	10520 mm (34' 6")	10930 mm (35' 10")
Max digging depth	В	6910 mm (22' 8")	7500 mm (24' 7")
Max digging depth (8ft level)	B'	6730 mm (22' 1")	7350 mm (24' 1")
Max vertical wall digging depth	С	5100 mm (16' 9")	5440 mm (17' 10")
Max digging height	D	10390 mm (34' 1")	10290 mm (33' 9")
Max dumping height	Е	7250 mm (23' 9")	7200 mm (23' 7")
Min swing radius	F	4540 mm (14' 11")	4490 mm (14' 9")
		201.0 [219.3] kN	201.0 [219.3] kN
	SAE	20500 [22360] kgf	20500 [22360] kgf
Bucket digging force		45190 [49300] lbf	45190 [49300] lbf
Bucket digging force		228.5 [249.3] kN	228.5 [249.3] kN
	ISO	23300 [25420] kgf	23300 [25420] kgf
		51370 [56040] lbf	51370 [56040] lbf
		180.7 [197.2] kN	160.8 [175.4] kN
	SAE	18430 [20110] kgf	16400 [17890] kgf
Arm around force		40630 [44330] lbf	36160 [39440] lbf
Arm crowd force		188.0 [205.1] kN	165.7 [180.8] kN
	ISO	19170 [20910] kgf	16900 [18440] kgf
		42260 [46100] lbf	37260 [40650] lbf

[]: Power boost

4. WEIGHT

	HX4	30 L
Item	kg	lb
Upperstructure assembly	15610	34410
Main frame weld assembly	3045	6710
Engine assembly	710	1565
Main pump assembly	190	420
Main control valve assembly	340	750
Swing motor assembly	440	970
Hydraulic oil tank assembly	340	750
Fuel tank assembly	260	570
Counterweight	7500	16535
Cab assembly	490	1080
Lower chassis assembly	19600	43210
Track frame weld assembly	6430	14180
Swing bearing	550	1210
Travel motor assembly	630	1390
Turning joint	65	140
Track recoil spring and idler	325	720
Idler	310	680
Sprocket	95	210
Carrier roller	40	90
Track roller	90	192
Track-chain assembly (600 mm standard triple grouser shoe)	2700	5950
Front attachment assembly (6.5 m boom, 3.2 m arm, 1.90 m³ SAE heaped bucket)	8910	19640
6.5 m boom assembly	3180	7010
3.2 m arm assembly	1480	3260
1.90 m³ SAE heaped bucket	1980	4370
Boom cylinder assembly	370	820
Arm cylinder assembly	480	1060
Bucket cylinder assembly	310	680
Bucket control linkage assembly	370	820

5. LIFTING CAPACITIES

1) HX430 L

(1) 6.5 m (21' 4") boom, 2.6 m (8' 6") arm equipped with 2.10 m³ (SAE heaped) bucket and 600 mm (24") triple grouser shoe and 6200 kg (13670 lb) counterweight.

		Load radius							At	max. rea	ch	
Load po		3.0 m (m (10.0 ft) 4.5 m (15.0 ft)		6.0 m (20.0 ft) 7.5 m (25.0 ft)			25.0 ft)	Capacity		Reach	
heigh	t											m (ft)
9.0 m	kg									*6110	*6110	6.70
(30 ft)	lb									*13470	*13470	(22.0)
7.5 m	kg									*6020	*6020	8.02
(25.0 ft)	lb									*13270	*13270	(26.3)
6.0 m	kg					*7120	*7120	*6600	*6600	*6110	5360	8.86
(20.0 ft)	lb					*15700	*15700	*14550	*14550	*13470	11820	(29.1)
4.5 m	kg			*11000	*11000	*8440	*8440	*7210	*7210	*6270	4660	9.37
(15.0 ft)	lb			*24250	*24250	*18610	*18610	*15900	*15900	*13820	10270	(30.7)
3.0 m	kg			*14280	*14280	*10020	*10020	*8020	7050	*6500	4310	9.59
(10.0 ft)	lb			*31480	*31480	*22090	*22090	*17680	15540	*14330	9500	(31.5)
1.5 m	kg			*16530	15120	*11380	9660	*8800	6730	*6770	4240	9.56
(5.0 ft)	lb			*36440	33330	*25090	21300	*19400	14840	*14930	9350	(31.4)
Ground	kg			*17270	14740	*12190	9310	*9320	6510	*7070	4450	9.27
Line	lb			*38070	32500	*26870	20530	*20550	14350	*15590	9810	(30.4)
-1.5 m	kg	*18230	*18230	*16960	14720	*12320	9190	*9370	6430	*7360	5020	8.68
(-5.0 ft)	lb	*40190	*40190	*37390	32450	*27160	20260	*20660	14180	*16230	11070	(28.5)
-3.0 m	kg	*21990	*21990	*15720	14940	*11590	9290			*7530	6250	7.73
(-10.0 ft)	lb	*48480	*48480	*34660	32940	*25550	20480			*16600	13780	(25.4)
-4.5 m	kg	*17990	*17990	*13070	*13070					*7190	*7190	6.24
(-15.0 ft)	lb	*39660	*39660	*28810	*28810					*15850	*15850	(20.5)

Note

- 1. Lifting capacity are based on SAE J1097 and ISO 10567.
- 2. Lifting capacity of the ROBEX series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
- 3. The load point is a hook located on the back of the bucket.
- 4. *indicates load limited by hydraulic capacity.
- * Lifting capacities are based upon a standard machine conditions.

Lifting capacities will vary with different work tools, ground conditions and attachments.

The difference between the weight of a work tool attachment must be subtracted.

Consult your HD Hyundai Construction Equipment dealer regarding the lifting capacities for specific work tools and attachments.

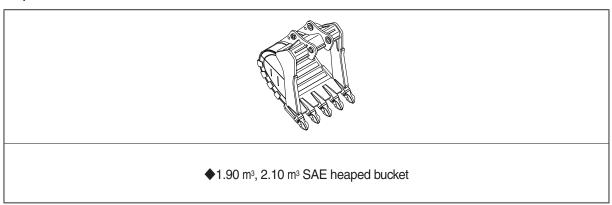
▲ Failure to comply to the rated load can cause possible personal injury or property damage. Make adjustments to the rated load as necessory for non-standard configurations.

(2) 6.5 m (21' 4") boom, 3.2 m (10' 6") arm equipped with 1.90 m 3 (SAE heaped) bucket and 600 mm (24") triple grouser shoe and 6200 kg (13670 lb) counterweight.

							Load	radius						At r	nax. re	ach
Load point		1.5 m	(5.0 ft)	3.0 m (10.0 ft)	4.5 m ((15.0 ft)	6.0 m ((20.0 ft)	7.5 m (25.0 ft)	9.0 m ((30.0 ft)	Сар	acity	Reach
heigh		ľ				F		Ū				ľ		ľ		m (ft)
9.0 m	kg													*5440	*5440	7.31
(30 ft)	lb													*11990	*11990	(24.0)
7.5 m	kg									*5330	*5330			*5490	*5490	8.53
(25.0 ft)	lb									*11750	*11750			*12100	*12100	(28.0)
6.0 m	kg									*6000	*6000			*5630	5080	9.32
(20.0 ft)	lb									*13230	*13230			*12410	11200	(30.6)
4.5 m	kg							*7670	*7670	*6690	*6690	*5290	*5290	*5850	4450	9.80
(15.0 ft)	lb							*16910	*16910	*14750	*14750	*11660	*11660	*12900	9810	(32.2)
3.0 m	kg					*12950	*12950	*9350	*9350	*7600	7290	*6650	5220	*6110	4130	10.01
(10.0 ft)	lb					*28550	*28550	*20610	*20610	*16760	16070	*14660	11510	*13470	9110	(32.8)
1.5 m	kg					*15710	15610	*10910	9940	*8500	6920	*7140	5020	*6420	4040	9.98
(5.0 ft)	lb					*34630	34410	*24050	21910	*18740	15260	*15740	11070	*14150	8910	(32.7)
Ground	kg			*12890	*12890	*17110	14960	*11990	9480	*9200	6640	*7490	4880	*6770	4190	9.70
Line	lb			*28420	*28420	*37720	32980	*26430	20900	*20280	14640	*16510	10760	*14930	9240	(31.8)
-1.5 m	kg	*13760	*13760	*17830	*17830	*17340	14770	*12430	9270	*9490	6490			*7150	4640	9.15
(-5.0 ft)	lb	*30340	*30340	*39310	*39310	*38230	32560	*27400	20440	*20920	14310			*15760	10230	(30.0)
-3.0 m	kg	*18570	*18570	*23870	*23870	*16570	14860	*12110	9270	*9150	6510			*7520	5610	8.26
(-10.0 ft)	lb	*40940	*40940	*52620	*52620	*36530	32760	*26700	20440	*20170	14350			*16580	12370	(27.1)
-4.5 m	kg	*24270	*24270	*20790	*20790	*14620	*14620	*10670	9500					*7700	*7700	6.89
(-15.0 ft)	lb	*53510	*53510	*45830	*45830	*32230	*32230	*23520	20940					*16980	*16980	(22.6)

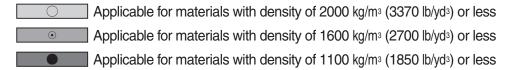
6. BUCKET SELECTION GUIDE

1) HEAVY DUTY BUCKET



Cap	Capacity			Recommendation				
		Width	Weight	6.5 m (21'	4") boom			
SAE heaped	CECE heaped	VVIdui	vveignt	2.6 m arm (8' 6")	3.2 m arm (10' 6")			
◆1.90 m³ (2.49 yd³)	1.65 m ³ (2.16 yd ³)	1665 mm (66")	1980 kg (4370 lb)	0	•			
◆2.10 m³ (2.75 yd³)	1.84 m³ (2.41 yd³)	1800 mm (71")	2080 kg (4590 lb)	•	•			

: Rock-heavy duty bucket



* These recommendations are for general conditions and average use.

Work tools and ground conditions have effects on machine performance.

Select an optimum combination according to the working conditions and the type of work that is being done.

Consult your HD Hyundai Construction Equipment dealer for information on selecting the correct boom-arm-bucket combination.

7. UNDERCARRIAGE

1) TRACKS

X-leg type center frame is integrally welded with reinforced box-section track frames. The design includes dry tracks, lubricated rollers, idlers, sprockets, hydraulic track adjusters with shock absorbing springs and assembled track-type tractor shoes with triple grousers.

2) TYPES OF SHOES

			Triple grouser						
Model	Shapes	5							
	Shoe width	mm (in)	600 (24)	700 (28)	750 (30)	800 (32)	900 (36)		
LIV420 I	Operating weight	kg (lb)	44120 (97270)	44640 (98410)	44900 (98990)	45170 (99580)	45680 (100710)		
HX430 L	Ground pressure	kgf/cm² (psi)	0.76 (10.81)	0.66 (9.39)	0.62 (8.82)	0.59 (8.39)	0.53 (7.54)		
	Overall width	mm (ft-in)	3340 (10' 11")	3440 (11' 3")	3490 (11' 5")	3540 (11' 7")	3640 (11' 11")		

3) NUMBER OF ROLLERS AND SHOES ON EACH SIDE

Item	Quantity
Carrier rollers	2 EA
Track rollers	9 EA
Track shoes	53 EA

4) SELECTION OF TRACK SHOE

Suitable track shoes should be selected according to operating conditions.

Method of selecting shoes

Confirm the category from the list of applications in **table 2**, then use **table 1** to select the shoe. Wide shoes (categories B and C) have limitations on applications. Before using wide shoes, check the precautions, then investigate and study the operating conditions to confirm if these shoes are suitable.

Select the narrowest shoe possible to meet the required flotation and ground pressure. Application of wider shoes than recommendations will cause unexpected problem such as bending of shoes, crack of link, breakage of pin, loosening of shoe bolts and the other various problems.

* Table 1

Track shoe	Specification	Category
600 mm triple grouser	Standard	A
700 mm triple grouser	Option	В
750 mm triple grouser	Option	В
800 mm triple grouser	Option	С
900 mm triple grouser	Option	С

* Table 2

Category	Applications	Applications
А	Rocky ground, river beds, normal soil	Travel at low speed on rough ground with large obstacles such as boulders or fallen trees
В	Normal soil, soft ground	 These shoes cannot be used on rough ground with large obstacles such as boulders or fallen trees Travel at high speed only on flat ground Travel slowly at low speed if it is impossible to avoid going over obstacles
С	Extremely soft gound (swampy ground)	 Use the shoes only in the conditions that the machine sinks and it is impossible to use the shoes of category A or B These shoes cannot be used on rough ground with large obstacles such as boulders or fallen trees Travel at high speed only on flat ground Travel slowly at low speed if it is impossible to avoid going over obstacles

8. SPECIFICATIONS FOR MAJOR COMPONENTS

1) ENGINE

Item	Specification
Model	Cummins QSL9
Туре	4-cycle turbocharged charger air cooled diesel engine
Cooling method	Water cooling
Number of cylinders and arrangement	6 cylinders, in-line
Firing order	1-5-3-6-2-4
Combustion chamber type	Direct injection type
Cylinder bore × stroke	114×145 mm (4.49"×5.69")
Piston displacement	8900 cc (543 cu in)
Compression ratio	17.8 : 1
Rated net horse power (SAE J1349)	358Hp at 1800 rpm (267 kW at 1800 rpm)
Rated gross horse power (SAE J1995)	372 Hp at 1800 rpm (277 kW at 1800 rpm)
Maximum torque	166 kgf · m (1200 lbf · ft) at 1500 rpm
Engine oil quantity	30 ℓ (7.9 U.S. gal)
Wet weight	708 kg (1560 lb)
Low idling speed	900±100 rpm
High idling speed	1700+50 rpm
Rated fuel consumption	155 g/Hp · hr at 1650 rpm
Starting motor	Denso (24V-7.8 kW)
Alternator	Denso 24V-95A
Battery	2×12V×160Ah

2) MAIN PUMP

Item	Specification
Туре	Variable displacement tandem axis piston pumps
Capacity	2 × 185 cc/rev
Maximum pressure	330 kgf/cm² (4690 psi) [360 kgf/cm² (5120 psi)]
Rated oil flow	2 × 333 ℓ /min (88.0 U.S. gpm / 73.2 U.K. gpm)
Rated speed	1800 rpm

[]: Power boost

3) GEAR PUMP

Item	Specification			
Туре	Fixed displacement gear pump single stage			
Capacity	15cc/rev			
Maximum pressure	40 kgf/cm² (570 psi)			
Rated oil flow	27.00 ℓ /min (7.1 U.S. gpm/5.9 U.K. gpm)			

4) MAIN CONTROL VALVE

Item	Specification		
Туре	9 spools		
Operating method	Hydraulic pilot system		
Main relief valve pressure	330 kgf/cm² (4690 psi) [360 kgf/cm² (5120 psi)]		
Overload relief valve pressure	390 kgf/cm² (5550 psi)		

^{[]:} Power boost

5) SWING MOTOR

Item	Specification				
Туре	Axial piston motor				
Capacity	250 cc/rev				
Relief pressure	290 kgf/cm² (4120 psi)				
Braking system	Automatic, spring applied hydraulic released				
Braking torque	107 kgf · m (773 lbf · ft)				
Brake release pressure	30~50 kgf/cm² (427~711 psi)				
Reduction gear type	2 - stage planetary				

6) TRAVEL MOTOR

Item	Specification			
Туре	Variable displacement axial piston motor			
Relief pressure	360 kgf/cm² (5120 psi)			
Capacity (max / min)	283/161 cc/rev			
Reduction gear type	2-stage planetary			
Braking system	Automatic, spring applied hydraulic released			
Brake release pressure	15.7 kgf/cm² (224 psi)			
Braking torque	120 kgf · m (860 lbf · ft)			

7) CYLINDER

Ite	Specification		
Boom cylinder	Bore dia \times Rod dia \times Stroke	Ø160ר110×1500 mm	
	Cushion	Extend only	
Arm cylinder	Bore dia \times Rod dia \times Stroke	Ø170ר120×1760 mm	
	Cushion	Extend and retract	
Bucket cylinder	Bore dia \times Rod dia \times Stroke	\varnothing 150 \times \varnothing 105 \times 1295 mm	
	Cushion	Extend only	

^{*} Discoloration of cylinder rod can occur when the friction reduction additive of lubrication oil spreads on the rod surface.

8) SHOE

Item		Width	Ground pressure	Link quantity	Overall width	
	Standard	600 mm (24")	0.76 kgf/cm² (10.81 psi)	53	3340 mm (10' 11")	
HX430 L Option	700 mm (28")	0.66 kgf/cm² (9.39 psi)	53	3440 mm (11' 3")		
	Option	750 mm (30")	0.62 kgf/cm² (8.82 psi)	53	3490 mm (11' 5")	
		800 mm (32")	0.59 kgf/cm² (8.39 psi)	53	3540 mm (11' 7")	
		900 mm (36")	0.53 kgf/cm² (7.54 psi)	53	3640 mm (11' 11")	

9) BUCKET

Itam	Cap	acity	Tooth	Width	
Item	SAE heaped	CECE heaped	quantity		
◆1.90 m³ (2.49 yd³)		1.65 m³ (2.16 yd³)	5	1665 mm (66")	
HX430 L	◆2.10 m³ (2.75 yd³)	1.84 m³ (2.41 yd³)	5	1800 mm (71")	

^{◆ :} Rock-heavy duty bucket

^{*} Discoloration does not cause any harmful effect on the cylinder performance.

9. RECOMMENDED OILS

HD Hyundai Construction Equipment genuine lubricating oils have been developed to offer the best performance and service life for your equipment. These oils have been tested according to the specifications of HD Hyundai Construction Equipment and, therefore, will meet the highest safety and quality requirements. We recommend that you use only HD Hyundai Construction Equipment genuine lubricating oils and grease officially approved by HD Hyundai Construction Equipment.

	approvou by 1 is	7 myuridai Corisi	ii dodoi i	_qa.p								
Service		Capacity	Ambient temperature °C(°F)									
noint	Kind of fluid	ℓ (U.S. gal)	-50	-30	-20	-1	0 (-	20 3	30 40	
point		(0.0.9)	(-58) (-	-22)	(-4)	(1	4) (3	32) (5	50) (6	88) (8	6) (104)	
			★SAE 5W-40									
									SAI	E 30		
Engine		00 (7.0)					10\\\					
oil pan	Engine oil	30 (7.9)	SAE 10W									
				SAE 10W-30								
								SAE 1	5W-40			
DEF/	Mixture of urea											
AdBlue®	and deionized	42.5 (11.2)	Į.	SO 222	241, Higl	า-pu	rity urea	+ deioniz	zed water	(32.5:67	'.5)	
tank	water											
Swing		8.0 (2.1)			★SAE	75\//	.00					
drive	Gear oil	` ′		T	* SAE	7577	-90					
Final		12.0×2 (3.2×2)						SAE 8	80W-90	T		
drive		(3.2 ^ 2)							<u> </u>			
		Tank : 210			★IS	O V	G 15	I				
Hydraulic	l bashesadis sil	(55.5) System: 414 (109)	ISO VG 32									
tank	Hydraulic oil		ISO VG 46, HBHO VG 46*3									
									SO VG 6	18		
		, ,		_								
C. al taul.	D'	FFO (4.4F O)		★ ASTI	M D975	NO.	1					
Fuel tank	Diesel fuel ^{★1}	550 (145.3)						AST	M D975	NO.2		
Fitting												
(grease	Grease	As required			*	NLG	I NO.1					
nipple)	J. 33.33							NLGI	NO.2			
Radiator	Mixture of				□ #les all	202	ah aal b-	00 00 00	anont to	o (FO : F(2)	
(reservoir	antifreeze	55 (14.5)			⊏tnyle	ene (giycoi ba	se perma	anent typ	e (50 : 50)	
tank) and soft water*2		, ,	★Ethyle	ne glycol b	ase permar	ent ty	pe (60 : 40)					

SAE: Society of Automotive Engineers

API : American Petroleum Institute

ISO: International Organization for Standardization

NLGI: National Lubricating Grease Institute

ASTM: American Society of Testing and Material

DEF: Diesel Exhaust Fluid, DEF compatible with AdBlue®

★ : Cold region (Russia, CIS, Mongolia)

★1: Ultra low sulfur diesel

- sulfur content ≤ 15 ppm

*2 : Soft water

City water or distilled water

*3 : HD Hyundai Construction Equipment Bio Hydraulic Oil

- * Using any lubricating oils other than HD Hyundai Construction Equipment genuine products may lead to a deterioration of performance and cause damage to major components.
- * Do not mix HD Hyundai Construction Equipment genuine oil with any other lubricating oil as it may result in damage to the systems of major components.
- * Do not use any engine oil other than that specified above, as it may clog the diesel particulate filter(DPF).
- * For HD Hyundai Construction Equipment genuine lubricating oils and grease for use in regions with extremely low temperatures, please contact HD Hyundai Construction Equipment dealers.