3. FUEL, COOLANT AND LUBRICANTS

1) NEW MACHINE

New machine used and filled with following lubricants.

Description	Specification			
Engine oil	SAE 15W-40(API CH-4)			
Hydraulic oil	ISO VG 46(SAE 10W)			
Swing and travel reduction gear	SAE 85W-140(API GL-5)			
Grease	Lithium base grease NLGI No. 2			
Fuel	ASTM D975-No. 2			
Coolant	Mixture of 50% ethylene glycol base antifreeze and 50% water.			

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ASTM : American Society of Testing and Material

2) RECOMMENDED OILS Use only oils listed below or equivalent. Do not mix different brand oil.

Service point Kind of		id Capacity l (U.S. gal)	Ambient temperature °C (°F)						
	Kind of fluid		-20 (-4)		0 (32)	10 (50)	20 (68)	30 (86)	40 (104)
Engine oil pan	Engine oil	25(6.6)							
							SAE	30	
				S	4E 10W	1			
					SA	E 10W-3	0		
						SAE 15	W-40		
		6.0(1.6)							
Swing drive	Gear oil			SAE 85W-140					
Final drive		3.3×2 (0.9×2)							
Hydraulic tank H	Hydraulic oil	Tank; 190(50.2) System; 300(79.3)		IS	O VG 3	2			
						SO VG 4	.6		
				ISO VG 68					
Fuel tank Die	Discolfusi	340(89.8)	ASTI	M D975 N	10.1				
	Diesel fuel					ASTM	1 D975 N	10.2	
				-				10.2	
Fitting Gi (Grease nipple)									
		As required	NL	_GI NO.1					
	Grease								
				-			.GI NO.2		
Radiator (Reservoir tank)	Mixture of antifreeze and water 50 : 50	35(9.2)							
			Ethylene glycol base permanent type						

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