3. FUEL, COOLANT AND LUBRICANTS

1) NEW MACHINE

New machine used and filled with following lubricants.

Description	Specification			
Engine oil	SAE 15W-40(API CF-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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API : American Petroleum Institute

ISO: International Organization for Standardization

NLGI : National Lubricating Grease InstituteASTM : 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 fluid		Capacity	Ambient temperature 。C (。F)						
	Capacity (U.S. gal)	-20 (-4)		0 (32)	10 (50)	20 (68)	30 (86)	40 (104)	
Engine oil pan Engin							SAE	30	
	Engino oil	25(6.6)		S	AE 10W	I			
	Engine oii				SA	E 10W-3	80		
				SAE 15W-40					
		7.0(4.0)							
Swing drive	Gear oil	7.0(1.9)		SAE 85W-140					
Final drive		11.0 × 2 (2.9 × 2)				O/ (L OO	140		
Hydraulic tank Hydraulic oil		Tank;		ISO VG 32					
	210(55.5)		ISO VG 46						
		System; 320(84.5)		ISO VG 68					
Fuel tank Diesel fuel		480(127)							
	Diesel fuel		ASTI	M D975 N	10.1				
	Dicocritici					ASTM	1 D975 N	10.2	
Fitting Grease (Grease nipple)	As required	NL	_GI NO.1						
			NLGI NO.2						
Radiator (Reservoir tank)	Mixture of antifreeze and water 50:50	45(12)		Eth	ylene g	lycol bas	e perma	inent typ	De .

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