



SERVICE NOTE

MITSUI ENGINEERING & SHIPBUILDING CO., LTD.
DIESEL TECHNICAL INVESTIGATION GROUP.

for MITSUI—MAN B&W engines, Water contamination of the circulating oil for M/E engine	No. 192	
	APPROVED	N. Osako
	CHECKED	
	PREPARED	K. Kaneko

ENGINE TYPE	ME / ME-C / ME-B engines	DATE	2015.02.19
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We have recently received the information that the control valves on the FIVA valves and the mechanically driven pumps on ME engine are damaged by water contamination of the high-pressure hydraulic oil system which is branched from the circulating oil.

If the control valve is damaged, it may become out of function, which leads to alarm, Slow Down due to malfunction of engine components and/or decreasing of hydraulic oil pressure, or Start failure in the worst case.

This damage is considered not only by scuffing or corrosion due to poor lubricating caused by water contamination, but also by the rapid wear down on the valve edges by means of a great number of small hard particles created from the alkaline lube oil in a process of reaction with water.

The freshwater content in the circulating oil is allowed maximum 0.2%, or 0.5% for short periods.

However, it is strongly recommended to find the root of water contamination and to remove the water by oil circulation and centrifuging (at preheating temperature) as quickly as possible, if water contamination is observed even less than 0.2% water content

PRIORITY

IMMEDIATELY <input checked="" type="checkbox"/>	AT FIRST OPPORTUNITY <input type="checkbox"/>	WHEN CONVENIENT <input type="checkbox"/>	OTHERS <input type="checkbox"/>
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