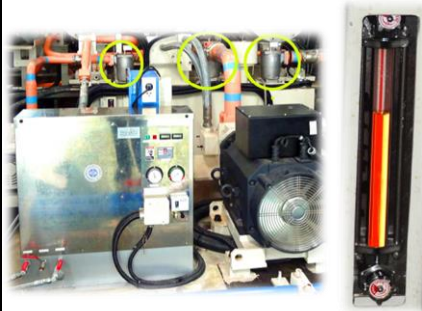


# Sample Case : Aluminum Die-cast Machine)



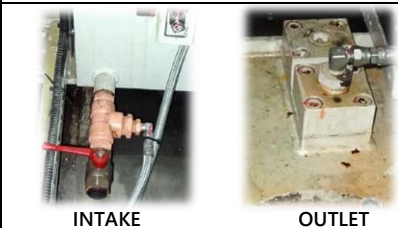
This client produces an aluminum car transmission casing, and Miracle Boy was installed right in front of the die-cast machine.



Hydraulic oil became transparent and can be even checked through the oil level gauge.



← Existing RRR filter is no longer used after installing MB



MB takes oil from a drainpipe and return from the top of the die-cast machine oil tank by using existing intake & outlet (without new piping work)

Current Situation	Equipment	UBE Machinery 1600ton Aluminum Die-cast Machine
	OIL	Ester Fire resistant Hydraulic Oil 3000L
	Existed Filter System	RRR Bypass Filter
<b>Issue</b>		<b>Oil exchanging cost is very high.</b>



<b>Counter Measure</b>	Install MB to the main oil tank of the die-cast machine.
------------------------	--



<b>Result</b>	<p>Even though ester synthetic oil is chemically stable, it even gets oxidized and mixed with humid. The only solution for improving such oil condition has been exchanging oil.</p> <p>However, as MB's filter element can remove oxide and humid to maintain oil cleanliness and even oil viscosity, hydraulic servo valve performs 100% of its capability which made molding quality greatly improved without oil exchange.</p> <p>&lt;Cost Saved&gt;  <b>★Ester Oil 3000L = US\$ 90,000 is saved annually.</b>  <b>★Annual overhaul cost is not required anymore.</b></p>
<b>Voice of Customer</b>	<p>Defect on die-cast machine leads to production line stop thus we had been working on maintaining hydraulic oil.          Replacing water-glycol oil to Ester oil made maintaining oil easier, but the cost of exchanging ester oil become much higher.</p> <p>However, after installing MB, exchanging filter elements is the only work required due to his capability of removing a large amount of contamination and maintaining oil viscosity.</p> <p>The fact that no oil exchange is required / no worry of defection on electric valves &amp; hydraulic pump is the great result of installing MB.</p>