




Sample Case : TOSHIBA Factory (Injection Molding Machine)

		<p>Miracle Boy was installed to the injection molding machine at TOSHIBA.</p>
		<p>Miracle Boy is installed (installation is simple & easy)</p>
		<p>Existed oil filters were not much effective</p>
Current Situation	Equipment	TOSHIBA 450~1600t Injection Molding Machine
	OIL	General hydraulic oil
	Existed Filter System	TOSHIAB genuine off-line filter & bypass filter
Issue		Client had not been able to reduce defection rate on hydraulic parts even they perform periodical maintenance on oil components



Counter Measure	Installing MB to the hydraulic oil tank of the injection molding machine
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Result	<p>After installation, acid level stays 0.1~0.2mgKHO/g & no viscosity change measured.</p> <p>Conductivity is also maintained 1.0mg/100ml which is same level as brand-new oil.</p>
Voice of Customer	<p>Since the installation in 2007, hydraulic oil supplier has not even recommended us to change oil as it is well maintained clean.</p> <p><u>Compared to the past, we have reduced about 200,000 liter of oil in 10 years</u> using for 7 units of injection molding machines. (Total CO2 reduction since the installation is estimated 500t.)</p> <p><REDUCED ANNUAL COST OF EXCHANGING OIL></p> <p>1600t Injection Molding Machine 4,000L = US\$ 19,000/YEAR</p> <p>It's been no hydraulic related problems such as expensive electric valves and hydraulic pumps.</p>