



**PAMA Oil Analysis Report  
before and after using the  
GF2 Fuel Additive Formula**

## Trendline By Component Report

District		ADPS	Code No.	PM1017										Component			ENGINE				Condition
Lab No.	Date	Oil Type	ISO	HM	HM Oil	VISC	FUEL	SOOT	OXI	NITR	WTR	TBN	Si	Fe	Cu	Al	Cr	Pb	Na		
7201005104	24/01/2011	MEDITRAN SX 15W40		36669	191	15.2	0.0	2.1	8.1	0.3	0.0	8.6	6.0	50.9	44.3	8.1	3.6	2.7	14.8	PROBLEM	
7201004251	11/01/2011	MEDITRAN SX 15W40		50448	250	16.1	0.0	3.5	12.3	0.9	0.0	7.7	2.0	52.2	107.6	12.8	6.2	7.7	30.5	PROBLEM	
7201003131	23/12/2010	MEDITRAN SX 15W40		30155	157	14.8	0.0	1.9	4.8	0.1	0.0	9.0	0.6	14.9	16.2	5.2	3.1	0.0	32.8	PROBLEM	
7201002340	11/12/2010	MEDITRAN SX 15W40		29924	188	15.6	0.0	2.8	7.5	1.3	0.0	8.4	0.0	19.5	8.1	4.0	0.2	2.6	7.5	NORMAL	
<b>Warning Limit Minimum</b>						11.0	4.0	3.0	21.0	15.0	0.6	5.0	5.0	50.0	10.0	5.0	5.0	10.0	50.0		
<b>Warning Limit Maximum</b>						16.3	5.0	4.0	31.0	30.0	1.0	100.0	25.0	100.0	50.0	15.0	10.0	50.0	100.0		

**Recommendation :**  
 PERHATIKAN ALUMINIUM TINGGI ! Kemungkinan ada keausan / kerusakan di bagian Crankshaft thrust bearing, Turbo thrust bearing & Aluminium Piston. Bila Silikon ikut tinggi ada kemungkinan dari kontaminasi kotoran / debu (chePERHATIKAN TEMBAGA TINGGI ! Kemungkinan ada keausan / kerusakan di bagian Main Bearing, Pin Bearing, Crank Trust Bearing, Cam Bushing, Bushing a connecting rod, Cam Follower Roller Pin, Rocker Arm Bushing, Timing Gear BusPERHATIKAN BESI TINGGI ! Kemungkinan ada keausan / kerusakan di bagian Liner, Crankshaft, Timing Gear, Cam arm, Piston, Valve Guide, Oil Pump.PERHATIKAN SILIKON TINGGI. Kemungkinan berasal dari kontaminasi kotoran / debu. Disarankan untuk memeriksa seal, vent dan case untuk menentukan sumber kebocoran oli ke dalam sistem.

