



# Oil Analysis Report



Lab No : 88374

Machine ID : MattMPS3

Machine Name :

Manufacture : Mazda

Model : MPS Turbo

Compartment : Engine

Site :

System Capacity :

Oil Manufacturer : Royal Purple

Oil Type : 10w-40

Grade : 90

Client : Lubetech

Client Contact : Mick Atherinos

Address :

Despatch Method : gSMART

gSMART, E-mail, Fax, Post, Web, Other



**WARNING**

## Sample Details

Lab No : 88374  
Sample Date : 17/10/2008  
Report Date : 17/10/2008  
Date Received : 17/10/2008  
Total Hours :  
Total Kilometers : 18473  
Hours On Oil :  
Kilometers On Oil : 8500  
Filtered Hours :  
Oil Changed : Yes  
Added Quantity : 0

Caution  
Values

## Oil Condition

Fuel Dilution (%) : <4.0  
Weight Solids : 0.2  
Water PPM :  
Volume Water (%) : <0.05%  
Viscosity @ 40 Deg C : 124  
Viscosity @ 100 Deg C :  
TAN (mg/KOH/g) :  
TBN (mg/HCL/g) : 6.0  
Oxidation :  
Nitration :  
Sulphation :  
Glycol :  
Diesel :

> 10%

## Cleanliness

Particle Count ISO4406 - 1987 : 19/16  
>= 2 um : 11862  
>= 5 um : 4387  
>= 15 um : 469  
Rating : Elevated

## Elements

Iron (Fe) : 41  
Lead (Pb) : 2  
Copper (Cu) : 20  
Chromium (Cr) : 1  
Tin (Sn) : 1  
Aluminium (Al) : 8  
Manganese (Mn) : 2  
Silicon (Si) : 11  
Sodium (Na) : 4  
Calcium (Ca) : 1424  
Zinc (Zn) : 1052  
Phosphorus (P) : 1014  
Molybdenum (Mo) : 108  
Magnesium (Mg) : 13  
Boron (B) :  
Barium (Ba) : 1



**WARNING**

## Comments :

**Oil Condition :** Viscosity is slightly elevated for 10w/40 oi.

**Cleanliness :** Cleanliness appears satisfactory.

**Elemental Analysis :** Wear condition appears satisfactory.

**Report Summary :** Oxidation by products and sulfation by products noted in the oil. Viscosity is starting to elevate. Oil was starting to oxidise hence the oil starting to 'thicken'.  
All else appears normal. If not done the oil does require changing. Note Molybdenum at 100ppm is noted in the oil. This level appears normal. Under current driving conditions 8500kms would appear to be a good change point.

*This analysis is intended to aid in the assessment of machine/lubricant condition. No guarantee, express or implied, is offered regarding the continuing operation of this machine or any part thereof.*