

Dingo

Oil Analysis Software and Services



12/10/01

Overview

■ Oil Analysis Software

- Save time in oil analysis administration
- Faster detection of faults
- Manage contamination control and condition-based component change programs using custom set alarm limits
- Use any lab you choose and retain your result history
- Asset history at your fingertips
- Lube Explorer, FleetOil Professional, Lube Pro, Maintenance Guy

■ Condition-Based Maintenance Services

- Software implementation
- Daily interpretation and recommendation
- Condition-based component changes
- Oil drain extension/optimization
- Condition-based oil drains
- Troubleshooting and Root Cause Analysis



FleetOil - Features & Benefits

- Sample Management
- Results
- Trend Graphs
- Alarms
- Exception Analysis



FleetOil – Sample Management

- Sample Batches
- Label Wizard
- Record of samples sent
- Sample Matching



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FleetOil – Results

- Interface Modules
- Automated Receiving
- Multiple Labs
- Matching of Results
- Lab Report



FleetOil – Trend Graphs

- Group Trends
- Alarm Group Graph
- Events
- Lab Analyst Comments
- Alarm Limits
- Zoom
- Meter Hours or Dates



FleetOil – Alarms

- Statistical Alarms
- User Defined Alarm Limits
- Trend Alarms
- Alarm Groups
- Wear Rate or Absolute Values
- Alarm Group Graph



FleetOil – Exception Analysis

- Exception - Overview & Details
- Action Flags
- Alarm Data
- Mini Trend
- Event Notes
- Result Sheet



FleetOil – Other Features

- Fuel & Oil
 - Equipment & Lubricants database
 - History
 - Reports
 - Utilities
- 



Application – Condition-based Component Changes

- Move from schedule (hourly) to condition
- Gain maximum life with existing conditions
- User set alarm limits
- Comparison to group characteristics
- Component trend or signature
- Check maintenance records
 - Average life
 - Max life, min life



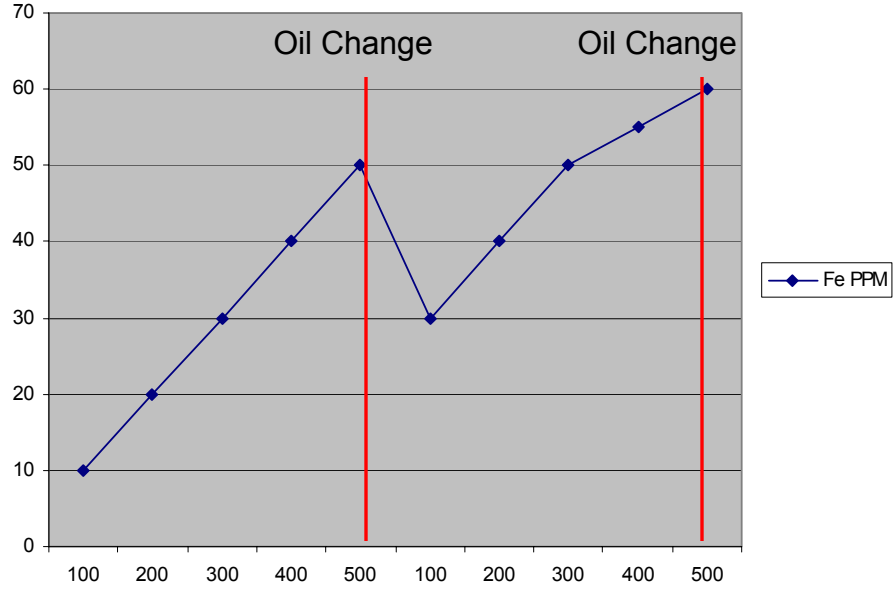
Application – Component Life Extension

- Contamination control
 - Lube delivery filtration
 - In service filtration
 - Offline filtration
- Culture change – quick reaction to address problems
- Trend comparison
 - To group
 - To previous history
- Use of wear rates

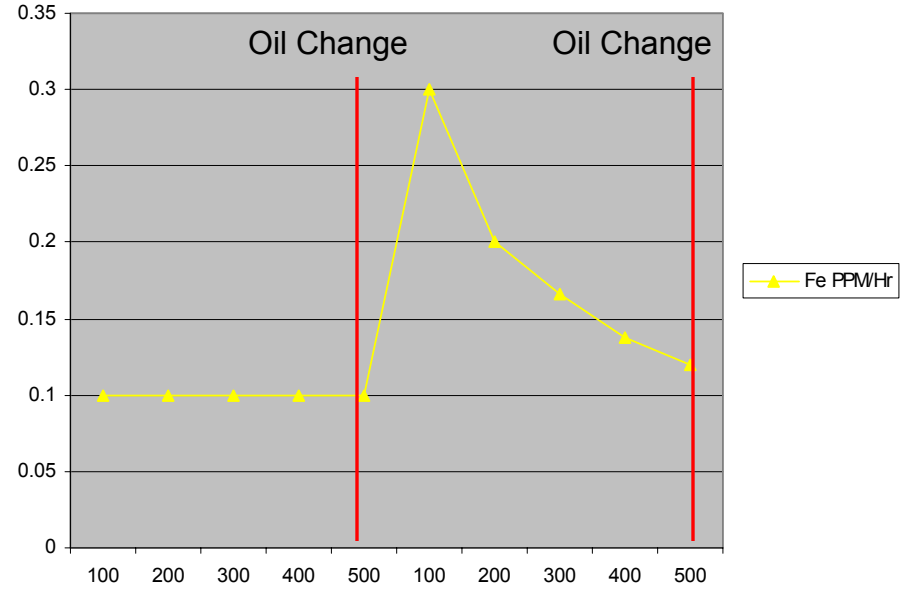


Application – Wear Rates

Fe PPM



Fe PPM/Hr



- Considering absolute values alone does not take oil hours into account
- Rate of increase gives another view that has oil hours built in



What Dingo Offers

■ Software Offered

- FleetOil, Lube Pro, Lube Explorer
- User or Enterprise Licenses
- Web based next year - Maintenance Guy
- Custom integration to maintenance systems

■ Services Offered

- Opportunity Assessment
- Oil Analysis training
- Software Implementation
- On site interpretation – condition based component changes and oil drains
- Program Implementation & Project Management



Summary/Conclusion

- Software – tool
- Opportunity Assessment - benefits
- Services – cultural change agent
- More info on www.dingo.com
- Dingo Offices in Denver, Brisbane

