VIBETEC INC.
260 Collinge Rd. Hinton, AB T7V 1L3
Phone (780) 817-2233 Fax. (780) 817-2236
Email: rob@vibetec.com

31st Mar 2010

Vibration Analysis Report

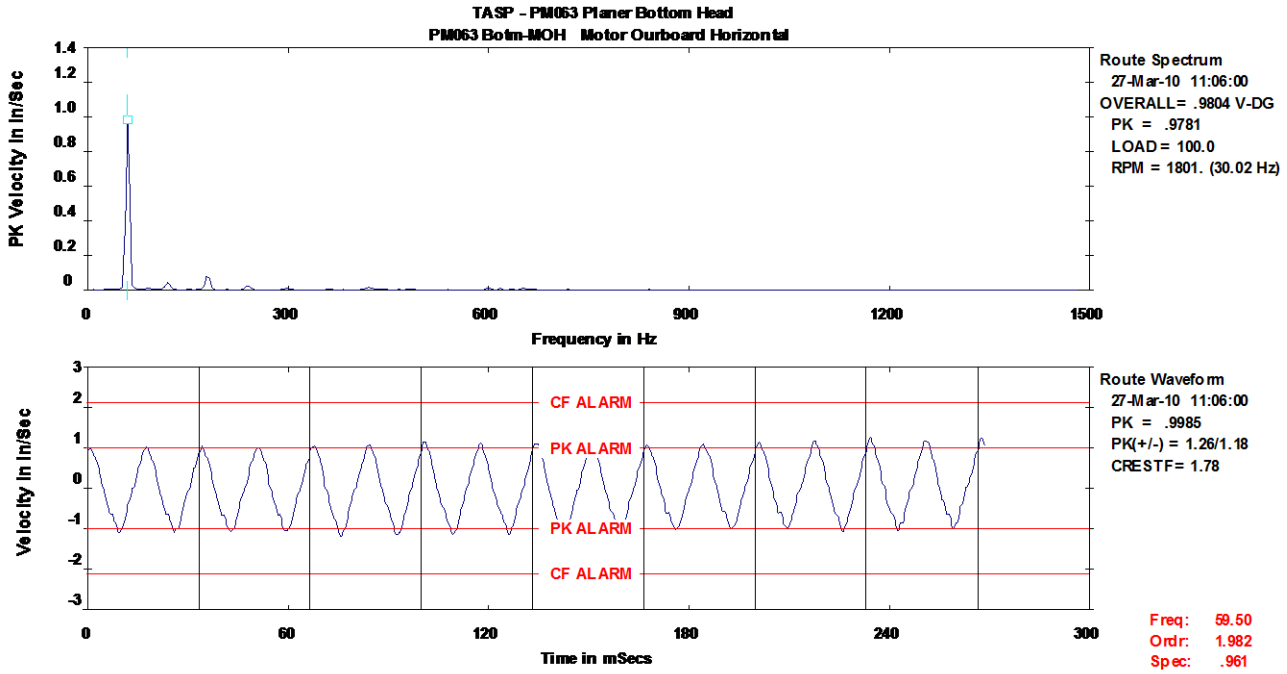
The following report is based on data collected on the 27th Mar 2010:

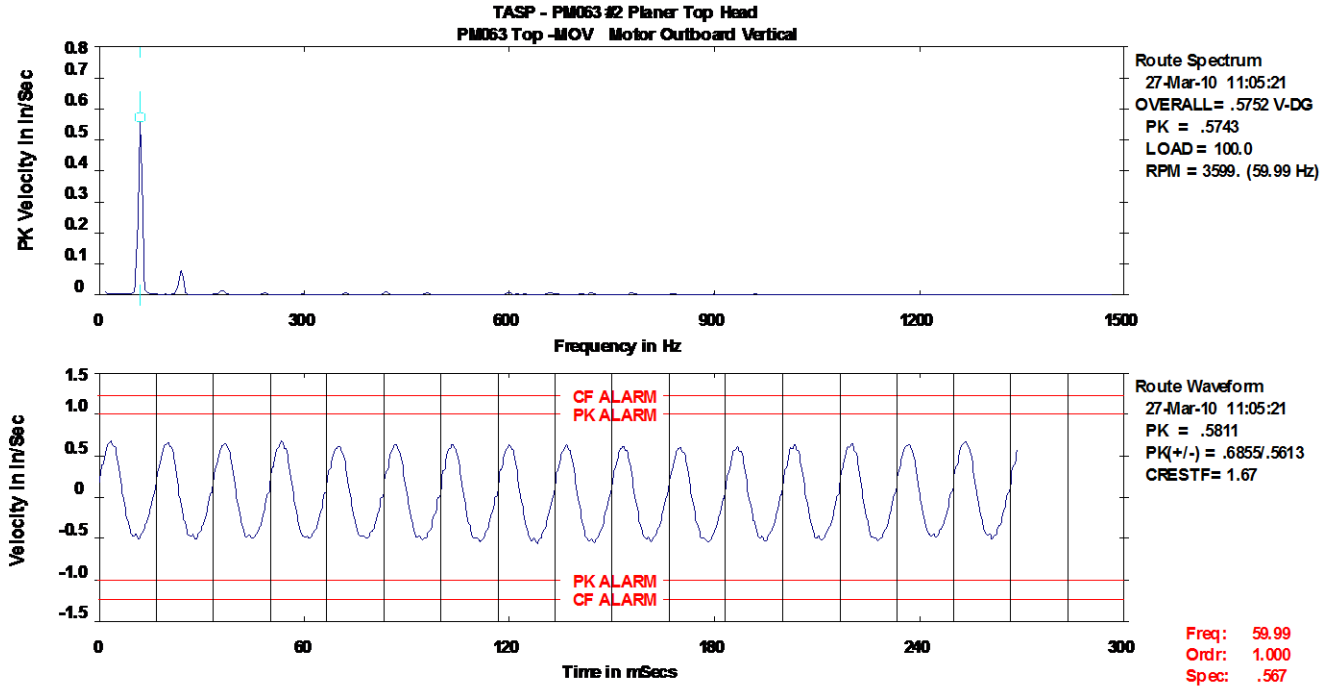
General Observations:
CP006 Chipper - check for loose or worn drive belts.

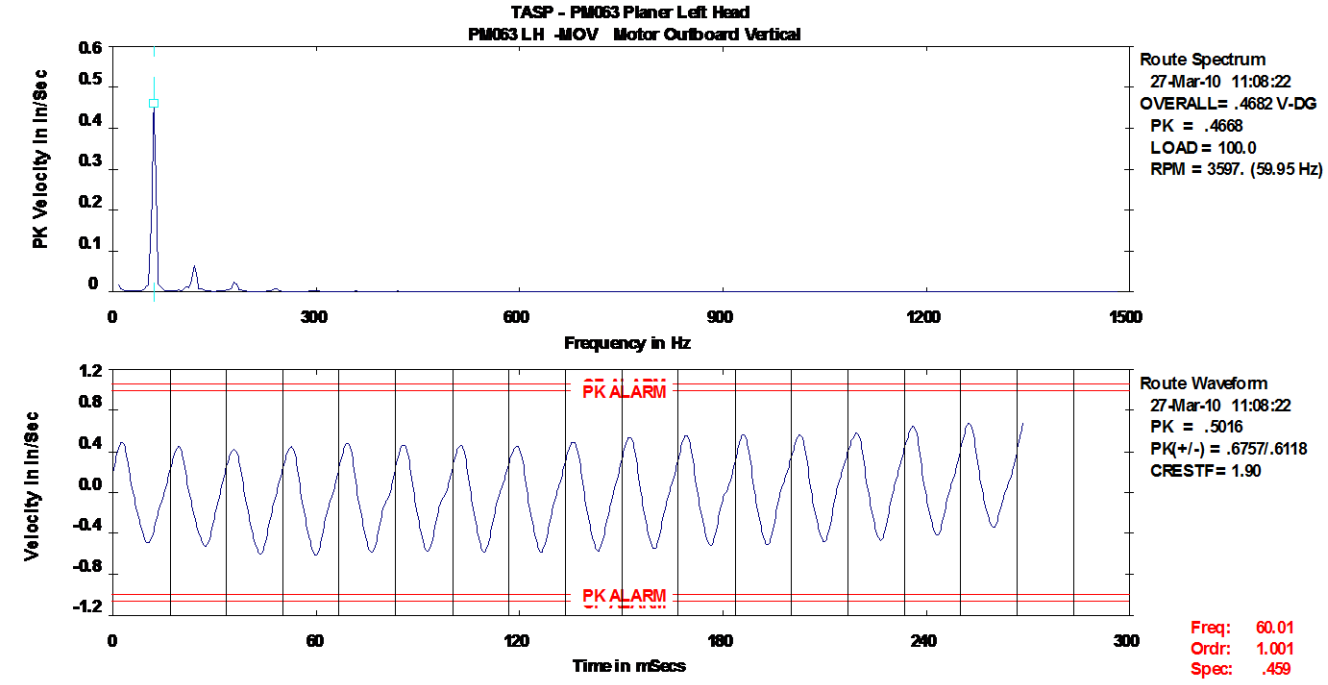
I found numerous problems right through the plant the following list sorted by alarm fault percentage:

1/ SM 063 #2 Planer Bottom Head, Top Head & Left Head

The bottom and to a lesser degree top and left and heads are unbalanced check for damaged or contaminated blades, if nothing is found the bottom arbor should be balanced.

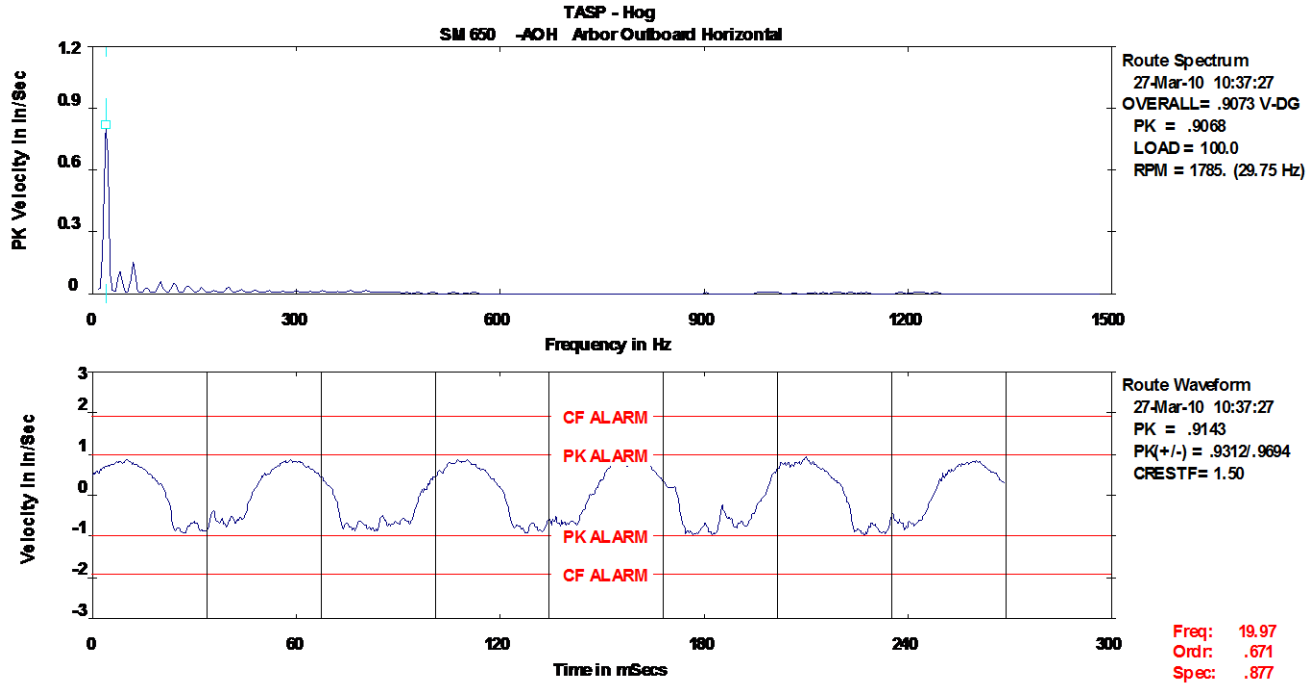






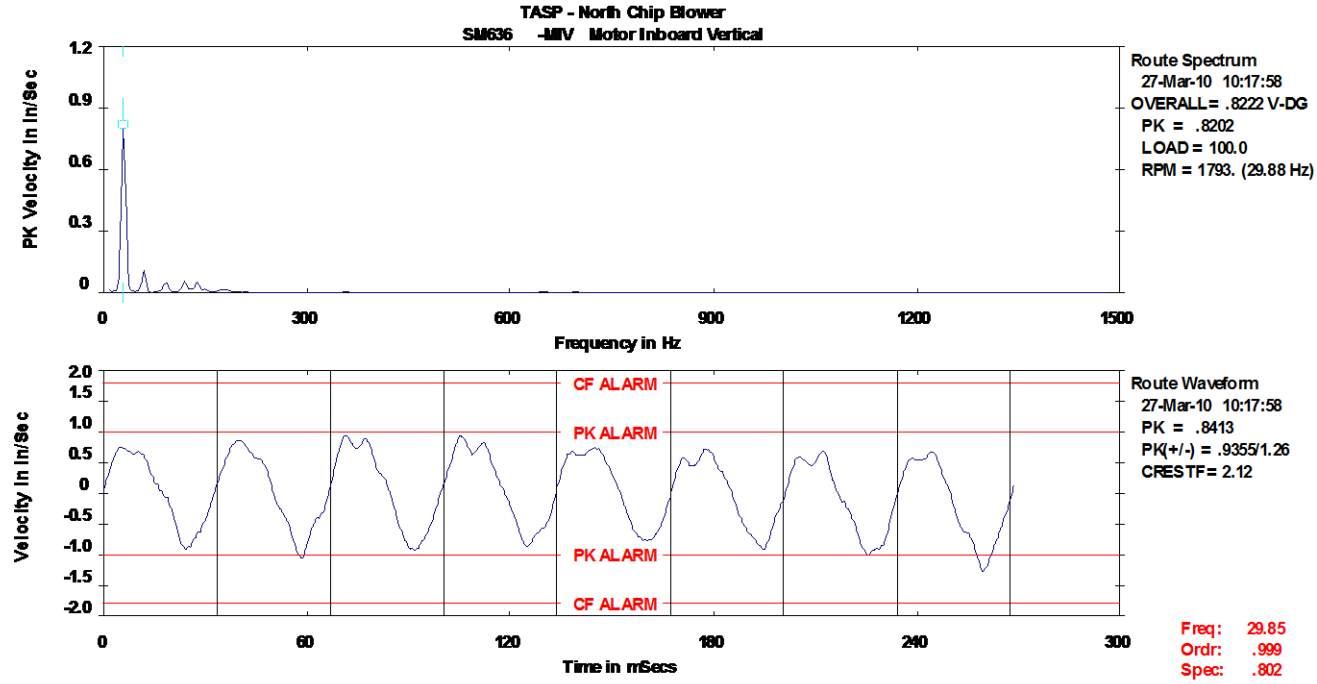
2/ SM 650 Hog

The hog arbor is unbalanced - check for damaged or missing hammer.



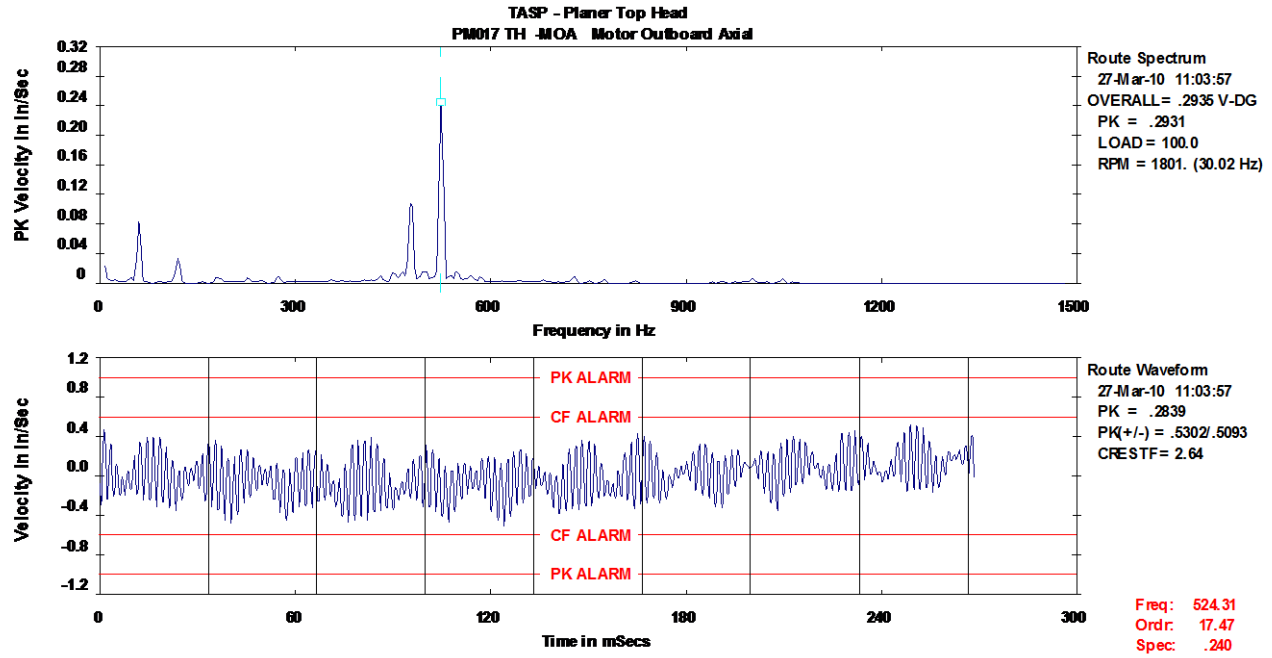
3/ North Chip Blower

The drive end (inboard end) of the motor appears to be unbalanced – check for a damaged or contaminated sheave.



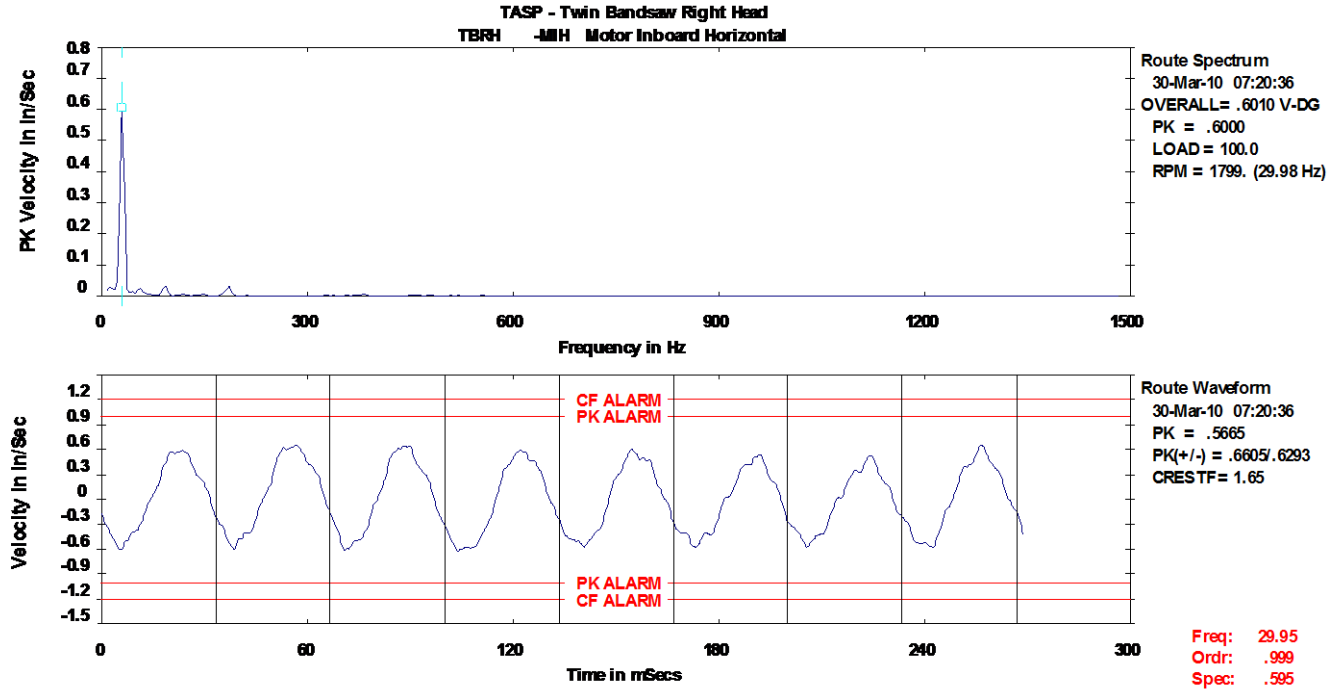
4/ PM 017 Planer Top Head

There are early indications of motor bearing wear – grease the bearings and I'll check for any further deterioration next month.



5/ Twin Band Saw Right Head (Dave please email back with the Plant #)

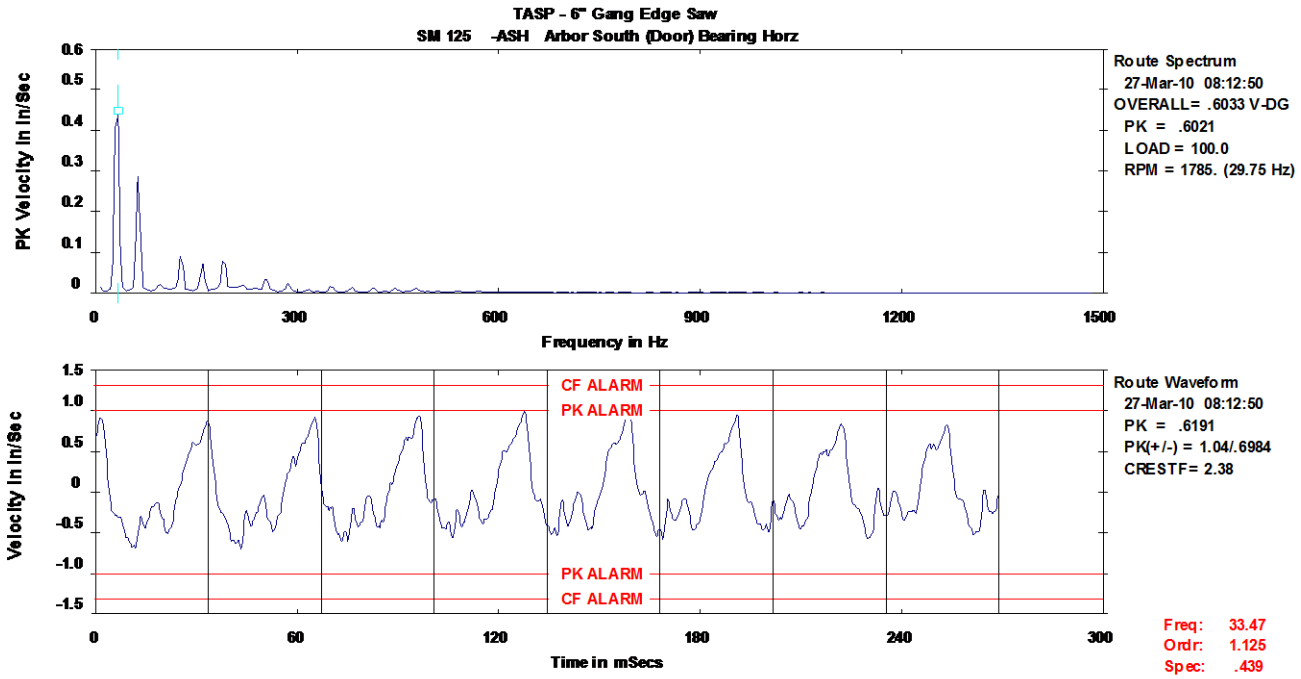
The motor is unbalanced; any equipment with an rpm over 1000 and/or a width more than 50% of the diameter, should be dynamically balanced (i.e. two planes). It might be possible to reduce the vibration on one plane (i.e. the sheave), but if the vibration is not causing a problem with product quality, I recommend that the motor is balanced in a shop with the sheave in place during a shutdown.



6/ SM 125 6" Gang Saw

The door bearing is misaligned, the bearing is in good condition but will soon deteriorate if this is not addressed. I have seen this problem before and as I explained to Rick, I found that the best way to ensure that

the bearing runs true in the door housing is to use a dial indicator; i.e. center the magnetic base on the end of the arbor shaft and rotate the shaft with the needle on the face of the bearing outer race, then make adjustments until there is no deflection.



All of the above had an alarm code "D" and should be addressed ASAP.

The following machines triggered an alarm code category "C" and will be monitored closely next month:

SM637 South Chip Blower, ,SM 214 B Denis Right, CP006 400HP Chipper, SM 725 #2 Setworks Edger (Right-N), SM 214 A Denis Left Head, SM 667 Air Dryer Blower Motor & PM017 Planer Left Head.

Alarm code definitions:
A – Time to alarm tripped.
B – Early warning level exceeded
C – Absolute alarm value exceeded.
D – Fault alarm value exceeded.

I trust that the above is in line with your requirements but if you have any further questions, please do not hesitate to contact me.

Regards: Rob
rob@vibetec.com
B.C. Cell: (250) 833-5579