

# 2291203

tarmac rally - race

Ford HXJA Ti-VCT

I-4cyl 1.6L 16v DOHC (DTx/DTx)



intake exhaust

## camshaft data:

|                  |              |           |
|------------------|--------------|-----------|
| lash ramp        | : 0.20mm     | 0.20mm    |
| duration @ 0.1mm | : 277°       | 268°      |
| duration @ 1.0mm | : 246°       | 238°      |
| valve lift       | : 11.30mm    | 10.70mm   |
| cam lift         | : 11.30mm    | 10.70mm   |
| lobe angle       | : 140°       | 121°      |
| timing @ 1.0mm   | : -17° / 83° | 60° / -2° |
| valve lift @ TDC | : 0.30mm     | 1.00mm    |

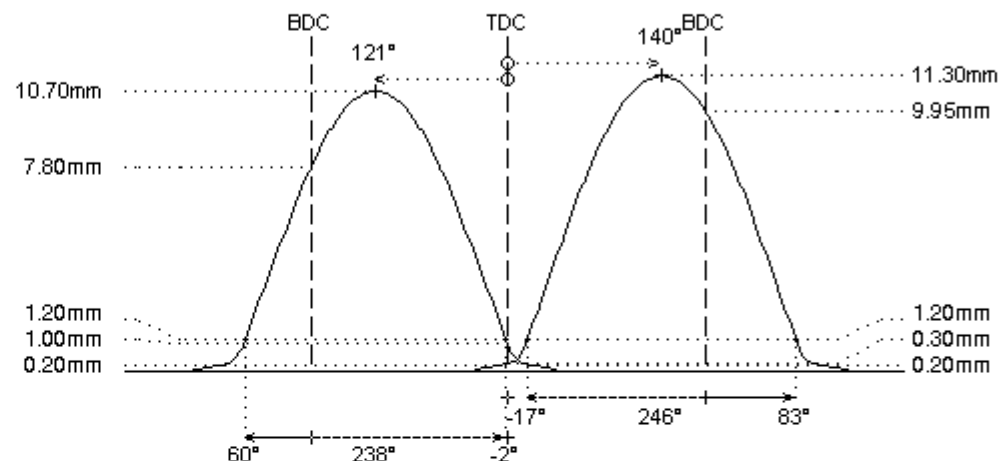
## parts setup:

|                 |                          |                          |
|-----------------|--------------------------|--------------------------|
| cam wheels :    | :                        | :                        |
| follower        | : O.E.M.                 | : O.E.M.                 |
| valve lash      | : O.E.M.                 | : O.E.M.                 |
| valve           | : O.E.M.                 | : O.E.M.                 |
| valve locks     | : O.E.M.                 | : O.E.M.                 |
| upper retainer  | : <b>✗ not available</b> | : <b>✗ not available</b> |
| lower retainer  | : <b>✗ not available</b> | : <b>✗ not available</b> |
| exterior spring | : <b>✗ not available</b> | : <b>✗ not available</b> |
| interior spring | :                        | :                        |

|                      |               |               |
|----------------------|---------------|---------------|
| fitted load / length | : 0kg @ 0.0mm | : 0kg @ 0.0mm |
| max. load / lift     | : 0kg @ 0.0mm | : 0kg @ 0.0mm |

## REMARKS :

- # original valve spring info is not available
- # valve spring kit can be developed on request



## REMARKS :

- # FOR COMPETITION APPLICATIONS ONLY. Following details must be verified:
  - the camshafts must turn smooth in the cylinderhead, provide free travel by machining where needed
  - distance between valve seal and retainer at full lift must be 0.6mm at least
  - minimum valve spring travel of 1.0mm at full lift must be provided
  - distance between valve and piston 1.0mm (pref. 1.5mm). check 5-15° before TDC on exhaust, and after TDC on intake
- # ONLY for use in competition engines with independent engine management (throttle position sensor) or carburetors
- # lock or limit range of VANOS system