



API SN Oil



GM dexos 1 Oil



Joe Gibbs HR-4 Oil

WEAR TEST RESULTS

2011 brings new oil specifications for passenger car motor oils. Don't worry, we've already done the homework for you. We hired an independent engine builder to test these new oils in a flat-tappet, 383 c.i. engine to determine the wear results.

The pictures tell the story. After 6 hours on the dyno, the lifters using the Joe Gibbs HR-4 oil show no visible wear. The lifters using the new API SN and GM dexos 1 oils already show signs of wear.

Each lifter pictured above was broken-in for 30 minutes with Joe Gibbs BR Break-In oil, and then ran for 6 hours - cycling between 1,500 RPM and 4,000 RPM - on a 302 duration, .460 inch lift camshaft with 270 lbs. open valve spring pressure.

Even our used NASCAR flat tappet lifters show no visible wear after 728 miles of competition at 9,000 RPM and over 500 lbs. open valve spring pressure.

Lab results support the visual evidence. Scanning Electron Microscope surface analysis of Joe Gibbs Racing's used flat-tappet lifters revealed Joe Gibbs BR Break-In oil and XP1 Synthetic oil work together to create protective films on both the cam lobe and the DLC coated lifter.



Even after 728 miles of competition, XP1 prevented visible wear on these lifters.

Wear Metals	Joe Gibbs BR Break-In Oil	Other Brand Break-In Oil
ALUMINUM ppm	10	27
LEAD ppm	43	67
COPPER ppm	18	44
IRON ppm	37	84

Used oil analysis reveals that Joe Gibbs BR oil reduces wear during the break-in process.



The "system" of using BR followed by XP1 or HR-4 delivers proven protection.

Used oil analysis after break-in also proves Joe Gibbs BR Break-In oil reduces wear.

Two engines were broken-in on the dyno. One engine used Joe Gibbs BR Break-In oil. The other engine used another brand break-in oil. The engine builder reported a visual reduction in wear on the lifters using the Joe Gibbs BR, and the used oil analysis report shows the Joe Gibbs BR produced less wear metals than the other brand break-in oil. Less wear during break-in means longer engine life.

All of these results point to one thing - the "system" approach works. Using Joe Gibbs BR Break-In oil provides the foundation for protection. The XP series of synthetic racing oils build off that foundation to provide race proven protection. The HR series of high performance oils delivers cam wear protection for muscle cars.

Interested in changing your definition of "used" parts? Visit JoeGibbsDriven.com for more details or call 1-866-1820.



SERIOUS OIL FOR SERIOUS ENGINES