

FEBRUARY 2020

Epson EcoTank L3150 vs. Canon PIXMA G3010 and HP Smart Tank 518

Overview

Keypoint Intelligence - Buyers Lab was commissioned by Seiko Epson Corporation to conduct a comparative performance test to assess the single-page productivity performance of the Epson EcoTank L3150 with that of the Canon PIXMA G3010 and the HP Smart Tank 518. Buyers Lab measured the time taken to print a single page on each device using a suite of 12 test targets and then compared the results. Testing was undertaken at Epson's facility in Hirooka, Japan, with all devices in their default settings.

Comparable Devices to Those Tested

The table below lists devices that are comparable to those tested, such as those in the same product family or model series.

Device Tested	Comparable Devices
Epson EcoTank L3150	Epson EcoTank L3158
	Epson EcoTank ET-2710
Canon PIXMA G3010	Canon PIXMA G3110
	Canon PIXMA G3310
	Canon PIXMA G3410
	Canon PIXMA G3510
	Canon PIXMA G3610
	Canon PIXMA G3810
	Canon PIXMA G3910
HP Smart Tank 518	HP Smart Tank 515
	HP Smart Tank 517
	HP Smart Tank Plus 551
	HP Smart Tank Plus 555

Executive Summary

The Epson EcoTank L3150 was faster than both competitors when printing each single-page test file, regardless if it was a low-, medium- or high-coverage file.

In particular, when printing the high-coverage Test File 3, the Epson device delivered it in just 25.95 seconds while the HP took over twice as long, at 60.82 seconds, and the Canon took over three times

as long, at 80.05 seconds. Even when printing documents with low coverage, the Epson still beat the competition.

Based on Buyers Lab’s testing, the Epson EcoTank L3150 is the fastest of the three devices when printing a variety of single-page files.

Productivity

To test the single-page productivity of each printer, Buyers Lab printed 12 single-page documents on each device. The targets ranged from low- to high-coverage pages.

Comparison of First-Page-Out Times

The Epson L3150 proved to be the fastest device, whether printing low-, medium-, or high-coverage files. Its closest rival in these tests was the Canon G3010, as it was faster than the HP 518 when printing all test files except for the third one. The Epson L3150’s average time to print a page was 14.03 seconds faster than that of the Canon G3010.

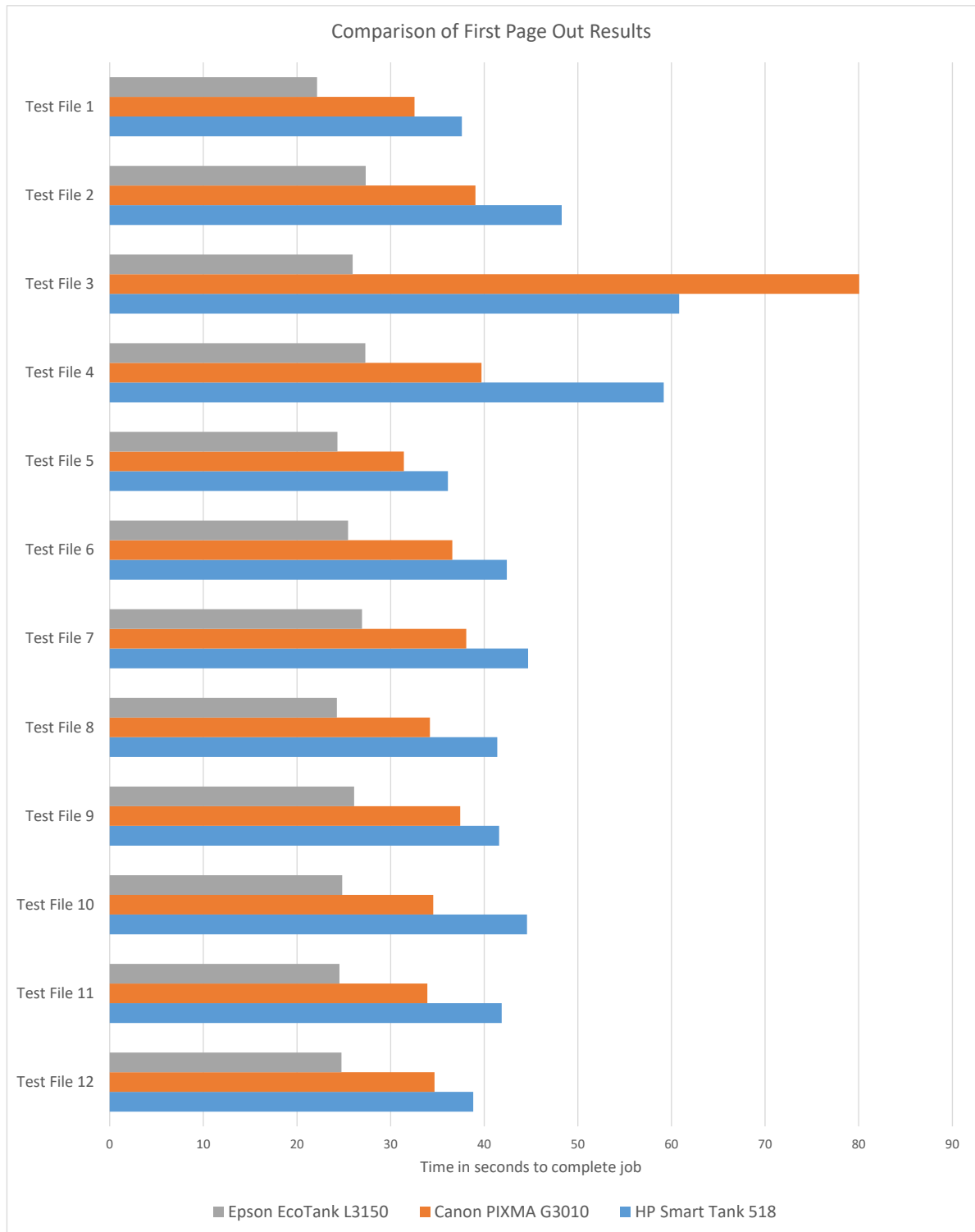
More pronounced was the difference between the Epson L3150 and the HP 518, where the latter’s average time to print a page of 44.78 seconds was 76.79% slower than the Epson’s average time of 25.33.

Time Taken to Print Test Files

Test File	Epson EcoTank L3150	Canon PIXMA G3010	HP Smart Tank 518
1	22.14	32.55	37.62
2	27.34	39.07	48.28
3	25.95	80.05	60.82
4	27.31	39.71	59.17
5	24.32	31.42	36.13
6	25.46	36.60	42.41
7	26.95	38.09	44.68
8	24.27	34.21	41.39
9	26.11	37.43	41.59
10	24.84	34.56	44.57
11	24.54	33.92	41.87
12	24.76	34.70	38.82
AVERAGE	25.33	39.36	44.78
MINIMUM	22.14	31.42	36.13
MAXIMUM	27.34	80.05	60.82
DIFFERENCE	5.20	48.63	24.69

Time in seconds. Each test file was printed on a device twice, with both times recorded and compared to make sure they were within +/- 5% of each other. The fastest time in which each device printed each test file is displayed in this table.

Comparison of First-Page-Out Results



Time in seconds indicates the time elapsed from when the print command was issued to when the trail edge of the page completely exited the device.

Supporting Test Data

Twelve low-, medium- and high-coverage PDF files were printed on each printer using default settings, and each file is displayed below. All of the test files are single-page documents.

Epson WorkForce Pro WF-8590 DTWF		
Model Number	WF-8590 DTWF	
Color	Color	
Year	2015	
Region	North America	
Product Type	Multifunction Printer	
Speed	28 ppm (A4, Letter)	16 ppm (A4, Letter)
Connectivity	Wi-Fi, Ethernet, USB, Mobile	Wi-Fi, Ethernet, USB, Mobile
Print Resolution	7200 x 4800 dpi	7200 x 4800 dpi
Print Volume	250,000 pages/year	250,000 pages/year
Capacity	250 sheets	250 sheets
Dimensions	20.1 x 16.6 x 20.1 inches	20.1 x 16.6 x 20.1 inches
Weight	26.5 lbs	26.5 lbs
Price	\$1,299.99	\$1,299.99

Test File One

EPSON OFFERS A MONEY-SAVING SOLUTION FOR MAYNOOTH BOYS' NATIONAL SCHOOL

EPSON
EXCEED YOUR VISION

Test File Two

State of the Market: Opportunities for Today and Tomorrow
2016 InfoTrends Digital Imaging Conference

Ed Lee
Group Director, Consumer and Professional Imaging
February 2016

Test File Three

MOVE YOUR BUSINESS FORWARD WITH INKJET PRINTING

Business Inkjet vs **Laser**

Simple mechanism / Complex mechanism
Lower no. heat / Higher heat
Low cost / High cost

Test File Four

WorkForce Pro WF-8590 DTWF

- Print up to 28 ppm
- Print up to 16 ppm
- Print up to 10 ppm

Recommended solutions:

- Small Format
- Office/Enterprise

Test File Five

BLI Summer 2015 Pick Award

Epson WorkForce Pro WF-8590

Outstanding A4 Low- to Mid-Volume Business Inkjet All-in-One

BuyersLab.com

Test File Six

Test File Seven

Test File Eight

Test File Nine

Test File 10

Test File 11

Test File 12

Test Environment/Conditions:

Testing was undertaken at Epson's Hirooka facility at 80 Hirookahara Shinden, Shiojiri, Nagano Prefecture 399-0706 Japan. The HP Smart Tank 518 was tested in 2019, and the two competitive devices were tested in 2018. The scope of each test was identical, as were the test conditions. The HP Smart Tank 518 had the latest firmware as of 9th December 2019.

Conditioning:

Printers, paper and cartridges were acclimatized in a room dedicated to the purpose, the temperature and humidity of which were 23.0°C and 50% respectively, for a minimum of two hours prior to testing, and were set up and pre-tested by Buyers Lab.

Test Equipment:

Buyers Lab technicians used a laptop running Windows 10 Pro 64-bit, a USB cable, and a stopwatch.

Test Procedures:

Buyers Lab technicians printed 12 single-page PDF documents to each device. Each device was in its ready state when a print job was sent to it. Each document was printed twice on a test device, with the time taken to print each copy noted and compared to make sure the times were within +/-5% of each other. If the times were beyond these bounds the test was undertaken again.

About Keypoint Intelligence - Buyers Lab

Keypoint Intelligence is a one-stop shop for the digital imaging industry. With our unparalleled services and unmatched depth of knowledge, we cut through the noise of data to offer clients the independent insights and responsive tools they need.

For over 50 years, Buyers Lab has been the global document imaging industry's resource for unbiased and reliable research, test data, and competitive information services. In addition to publishing the industry's most comprehensive and accurate test reports, each representing months of hands-on testing in our U.S. and UK laboratories, we have been the leading organization for extensive specifications/pricing databases on MFPs, printers, scanners, and software. Buyers Lab also provides consulting services and a range of private testing services that include document imaging device beta and pre-launch testing, performance certification testing, consumables testing (toner, ink, fusers, and photoconductors), solutions evaluations, and media runnability testing.

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