

Area



JOHN DEERE 672GP 1DW672GPTHF681827

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (8 GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		JR0219666	,	JR0178668
Resample at the next service interval to monitor. (Customer Sample	Sample Date		Client Info		09 Jul 2024	21 Dec 2023	10 Aug 2023
Comment: W68750)	Machine Age	hrs	Client Info		9643	8974	8514
	Oil Age	hrs	Client Info		669	460	7973
	Filter Age	hrs	Client Info		0	460	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m		38	9	13
	Chromium	ppm	ASTM D5185m	>11	<1	<1	0
	Nickel	ppm	ASTM D5185m	>5	<1	0	<1
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m		0	0	<1
	Aluminum	ppm	ASTM D5185m		5	4	2
	Lead	ppm	ASTM D5185m		0	0	<1
	Copper	ppm	ASTM D5185m	>26	6	0	<1
	Tin	ppm	ASTM D5185m	>4	0	0	0
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	nnm	ASTM D5185m	>22	8	6	6
CONTAMINATION	Potassium	ppm	ASTM D5185m		ہ <1	2	2
There is no indication of any contamination in the oil.	Fuel	ppm	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		<1.0 NEG	NEG	NEG
	Glycol		WC Method	>0.21	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	<u>\</u> 3	0.3	0.3	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	8.6	8.1	7.8
	Sulfation	Abs/.1mm	*ASTM D7624		21.6	21.4	21.3
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water		*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Sodium	ppm	ASTM D5185m	>31	3	0	0
	Boron	ppm	ASTM D5185m		232	240	259
	Barium	ppm	ASTM D5185m		<1	0	3
	Molybdenum	ppm	ASTM D5185m		250	241	270
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		808	820	802
	Calcium	ppm	ASTM D5185m		1442	1350	1517
	Phosphorus	ppm	ASTM D5185m		905	929	920
	Zinc	ppm	ASTM D5185m		1030	1065	1107
	Sulfur	ppm	ASTM D5185m		3266	2927	3156
	Oxidation	Abs/.1mm	*ASTM D7414		16.1	15.7	15.4
	Base Number (BN)	• •		13.6	9.2	8.5	9.1
	Vice @ 100°C	~C+	ACTM D44E	15 /	10 5	10 5	10 E

Visc @ 100°C cSt

ASTM D445 15.4

13.5

13.5

13.5



 Iteraction
 Unique Number
 : 11124505
 Diagnosed
 : 16 Jul 2024 - Don Baldridge
 US 28269

 Certificate 12367
 Test Package
 : CONST (Additional Tests: TBN)
 Contact: CHARLOTTE SHOP

 To discuss this sample report, contact Customer Service at 1-800-237-1369.
 myoung@jamesriverequipment.com

 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.
 T: (704)597-0211

 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)
 F: (704)596-6198

Submitted By: Mike Young - CHARLOTTE SHOP Page 2 of 2