

Machine Id JOHN DEERE 160G 1FF160GXCMF058134 Component Hydraulic System Fluid

JOHN DEERE ZINC-FREE HYDRAULIC OIL 46 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0214699		
	Sample Date		Client Info		09 May 2024		
	Machine Age	hrs	Client Info		1252		
	Oil Age	hrs	Client Info		1252		
	Filter Age	hrs	Client Info		1252		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		Not Changd		
	Sample Status				NORMAL		
WEAR	PQ		ASTM D8184	>50	17		
All component wear rates are normal.	Iron	ppm	ASTM D5185m	>32	4		
	Chromium	ppm	ASTM D5185m	>9	<1		
	Nickel	ppm	ASTM D5185m	>5	0		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m		2		
	Lead	ppm	ASTM D5185m	>28	0		
	Copper	ppm	ASTM D5185m	>50	4		
	Tin	ppm	ASTM D5185m	>5	<1		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m		<1		
The emount and size of norticulates present in the system are	Potassium	ppm	ASTM D5185m		2		
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.	Water		WC Method		NEG		
	Particles >4µm		ASTM D7647		8699		
	Particles >6µm		ASTM D7647		676		
	Particles >14µm		ASTM D7647		23		
	Particles >21µm		ASTM D7647		4		
	Particles >38µm		ASTM D7647	>40	0		
	Particles >71µm		ASTM D7647		0		
	Oil Cleanliness		ISO 4406 (c)		20/17/12		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.075	NEG		
	0				•		
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>21	0		
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		0		
	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		0		
	Manganese	ppm	ASTM D5185m		0		
	Magnesium	ppm	ASTM D5185m		1		
	Calcium	ppm	ASTM D5185m		29		
	Phosphorus	ppm	ASTM D5185m		500		
	Zinc	ppm	ASTM D5185m		50		
	Culture				100		

Sulfur

ppm ASTM D5185m

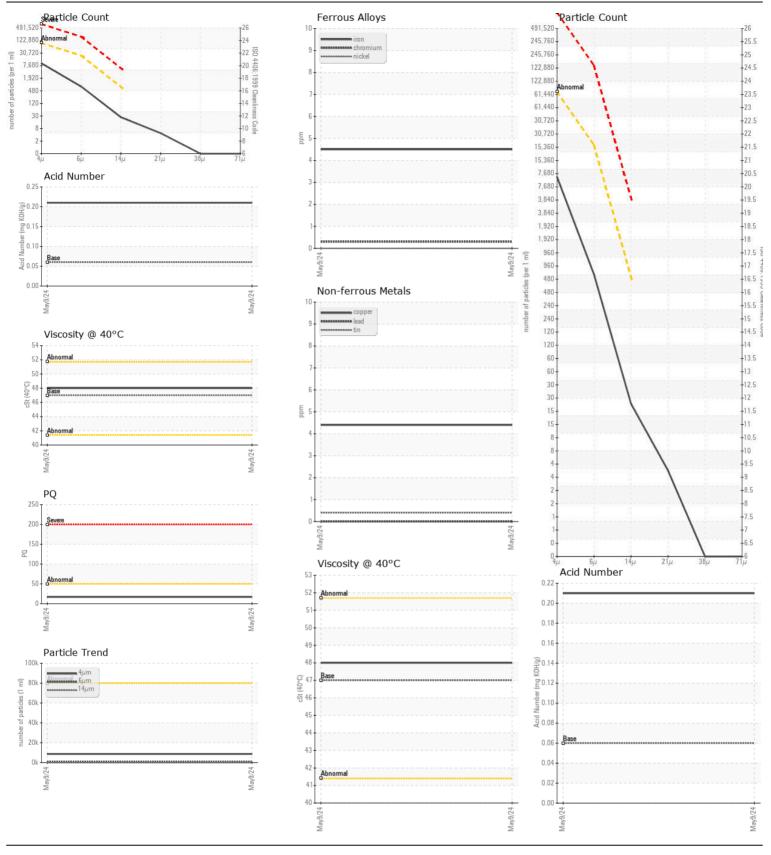
Acid Number (AN) mg KOH/g ASTM D8045 0.06

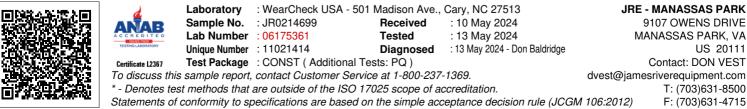
Visc @ 40°C cSt ASTM D445 47

128

0.21

48.0





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