

[BOLINVAR FARMS] JOHN DEERE 5085E C292551 (S/N 1LV5085EADE240762)

Hydraulic System

Area

JOHN DEERE HY-GARD HYD/TRANS (--- GAL)

$\frac{1}{2} \frac{1}{2} \frac{1}$							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Sample Number		Client Info		JR0196713		
	Sample Date		Client Info		09 May 2024		
	Machine Age	hrs	Client Info		2238		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
WEAR	Iron		ASTM D5185m	<20 <20	▲ 50		
	Chromium	ppm	ASTM D5185m		1		
The iron level is abnormal. All other component wear rates are normal.	Nickel	ppm	ASTM D5185m		- <1		
	Titanium	ppm	ASTM D5185m	>10	<1		
	Silver	ppm	ASTM D5185m		<ı 1		
	Aluminum	ppm	ASTM D5185m	>10	4		
	Lead	ppm	ASTM D5185m		4 3		
	Copper	ppm	ASTM D5185m		27		
	Tin	ppm	ASTM D5185m		27		
	Vanadium	ppm	ASTM D5185m	>10	2 <1		
	White Metal	ppm scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
		Scalai	visual				
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	9		
	Potassium	ppm	ASTM D5185m	>20	3		
There is a high amount of silt (particulates < 14 microns in size) present in the oil.	Water		WC Method	>0.1	NEG		
	Particles >4µm		ASTM D7647	>5000	133019		
	Particles >6µm		ASTM D7647	>1300	4607		
	Particles >14µm		ASTM D7647	>160	16		
	Particles >21µm		ASTM D7647	>40	5		
	Particles >38µm		ASTM D7647	>10	0		
	Particles >71µm		ASTM D7647	>3	0		
	Oil Cleanliness		ISO 4406 (c)	>19/17/14	4 24/19/11		
	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	>0.1	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m	0	2		
The AN level is acceptable for this fluid. The condition of the oils additive package is suitable for further service.	Boron	ppm	ASTM D5185m		17		
	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m	0	16		
	Manganese	ppm	ASTM D5185m	4.45	2		
	Magnesium	ppm	ASTM D5185m		100		
	Calcium	ppm	ASTM D5185m		2093		
	Phosphorus	ppm	ASTM D5185m	1290	717		

Zinc

Sulfur

816

3535

1.15

44.18

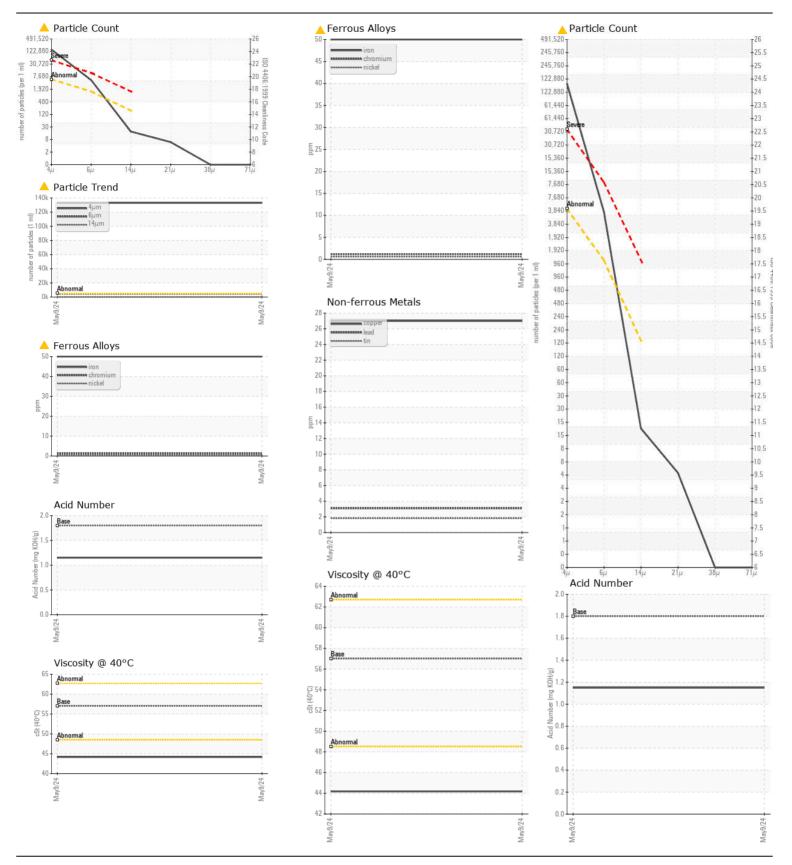
ASTM D5185m 1640

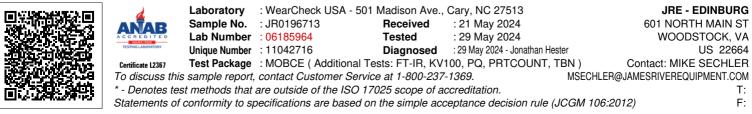
ppm

Acid Number (AN) mg KOH/g ASTM D8045 1.8

Visc @ 40°C cSt ASTM D445 57.0

ppm ASTM D5185m





Contact/Location: MIKE SECHLER - JAMEDI Page 2 of 2