

OIL ANALYSIS REPORT

Sample Number

hrs

hrs

Sample Date

Machine Age

Oil Changed

Sample Status

CONTAMINATION

Oil Age

Area DMG **JOHN DEERE 5090M 100468**

Hydraulic System TDH FLUID SAE 75W80 (--- QTS)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

A Wear

The iron level is abnormal. All other component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.



Water		WC Method	>0.1	NEG		
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		30		
Iron	ppm	ASTM D5185m	>20	<u> </u>		
Chromium	ppm	ASTM D5185m	>10	1		
Nickel	ppm	ASTM D5185m	>10	<1		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m		<1		
Aluminum	ppm	ASTM D5185m	>10	3		
Lead	ppm	ASTM D5185m	>10	4		
Copper	ppm	ASTM D5185m	>75	13		
Tin	ppm	ASTM D5185m	>10	2		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	10	6		
Barium	ppm	ASTM D5185m	10	0		
Molybdenum	ppm	ASTM D5185m	10	2		
Manganese	nnm	ASTM D5185m		2		

Molybdenum	ppm	ASTM D5185m	10	2	
Manganese	ppm	ASTM D5185m		2	
Magnesium	ppm	ASTM D5185m	100	68	
Calcium	ppm	ASTM D5185m	3500	3278	
Phosphorus	ppm	ASTM D5185m	1150	1156	
Zinc	ppm	ASTM D5185m	1150	1253	
Sulfur	ppm	ASTM D5185m	5000	4321	

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	8		
Sodium	ppm	ASTM D5185m		2		
Potassium	ppm	ASTM D5185m	>20	4		

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	A 101707		
Particles >6µm	ASTM D7647	>1300	<u> </u>		
Particles >14µm	ASTM D7647	>160	147		
Particles >21µm	ASTM D7647	>40	20		
Particles >38µm	ASTM D7647	>10	2		
Particles >71µm	ASTM D7647	>3	0		
Oil Cleanliness	ISO 4406 (c)	>19/17/14	4 24/21/14		



120

-100 -

80 61

40

201

Ok

250

200

150

50

50 4

31

21

0. Mar18/24

4.

/ Number (mg KOH/g)

Pid A

0. 0.0

58

56

54

(j 52 () 50

향 ₄₈ Bas

46

44 Abno

42

Var1

Mar18/24

Abnorma

Abnorma 3.

Bas

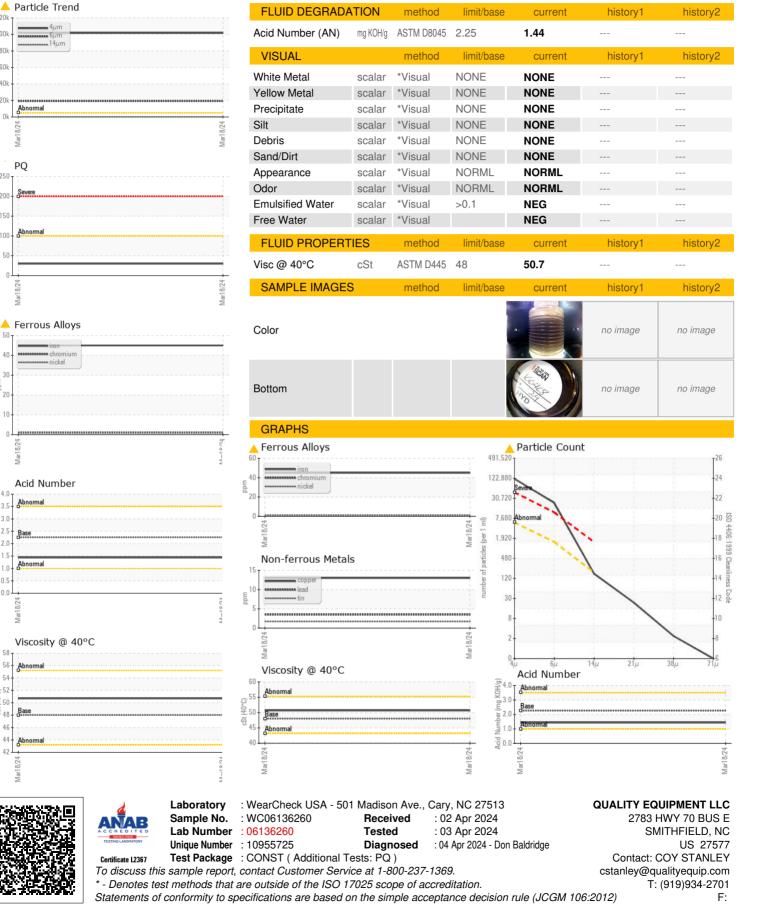
/Jar

2 100 Marl

PQ

Dantio 60





Contact/Location: COY STANLEY - QUASMI