

Client: 3557210
COMBINE WORLD
Box 357
Allan, SK S0K0C0
ATTN: Charles E. Smith

Unit #: JD1122
Unit Location:
Component: ENGINE
Location: REAR
Serial #:
Make: JOHN DEERE
Model: 9870 STS, 13.5 L
OAS #:




AGAT

Laboratories

Equipment Reliability and Lubricants Testing Services

3650 21st Street N.E., Calgary, AB, T2E6V6

Phone:(403)299-2000 Fax:(403)299-2105



Date analyzed: 11/08/22
Work order: 22C180703
Oil brand & grade: UNKNOWN
Client Ref #:

LEGEND - LC -Lower Critical LR -Lower Reportable UR -Upper Reportable UC -Upper Critical * Ital -Custom Limit

UNIT DATA					SPECTROGRAPHIC ANALYSIS (PPM)																			
Sample#	Date Sampled	Component Service	Oil Service	Oil Changed	Al Aluminum	Cr Chromium	Cu Copper	Fe Iron	Sn Tin	Pb Lead	Si Silicon	Mo Molybdenum	Ni Nickel	Ag Silver	K Potassium	Na Sodium	B Boron	Ba Barium	Ca Calcium	Mg Magnesium	Mn Manganese	P Phosphorus	Zn Zinc	
New Oil					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B526340	09/16/22	3200 hrs	100 hrs	N	1	0	30	12	1	2	5	164	0	0	0	4	143 UR	0	846	480	0	565	650	
PHYSICAL PROPERTIES					ISO CLEANLINESS								OIL DEGRADATION											
Sample#	Glycol	H2O	% Fuel	Viscosity 40°C	Viscosity 100°C	% Solids	KF	°C Flash Point	Micron size				% SOOT			abs/cm-1			ZDDP	TAN	TBN	Min. RPVOT		
									4	6	14	ISO Code		OXD	NOX	COX	SO4							
New Oil																								
B526340	N	N	10.0	18.6	4.3										4.6									
WEAR CONTROL CHART									COMMENTS															
Sample#	0	50	100	150	200	250	Comments:																	
B526340						210	FD > 10 REFER TO REVERSE FOR QUALITY CONTROL REPORT, EXPLANATION OF VARIANCE AND POSSIBLE CAUSES.																	
							Should you wish to provide feedback to AGAT Laboratories, please access our Customer review form at www.agatlabs.com/review.htm . This input is extremely important to us because your well being and satisfaction is our number one priority.																	

Client: **3557210**

COMBINE WORLD

Box 357

Allan, SK S0K0C0

ATTN: Charles E. Smith

Unit No.: **JD1122**

Unit Location:

Component: **ENGINE**

Location: **REAR**

Serial No.:

Make: **JOHN DEERE**

Model: **9870 STS, 13.5 L**

OAS No.:

Date analyzed: **11/08/22**

Work order: **22C180703**

Oil brand & grade: **UNKNOWN**

Client Ref #:



Flagged Result

Possible Causes

Significance of Result / Recommended Action

B - Boron

Boron is most commonly a coolant additive (in the form of borate). It may also be found in water inhibitors, extreme pressure additives, or grease additives.

Higher than expected boron levels generally indicate contamination. If high sodium and/or potassium levels are also present this commonly points to a coolant leak. Check for coolant leaks, seal failures, cracked heads or liners to identify and evaluate the source. Re-sample to monitor to ensure the source of contamination has been fixed.

Fuel - Fuel Dilution

Fuel dilution may be due to excessive blow-by, excessive idling, cold weather starting, faulty injector, leaking fuel transfer pump seals or stop and go driving. Fuel dilution may be correlated with decreased oil viscosity.

Fuel dilution indicates contamination of the sample with fuel. Identify and evaluate the source. Consider changing the oil.

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Unit Location:
Component: ENGINE
Location: REAR
Serial #:
Make: JOHN DEERE
Model: 9870 STS, 13.5 L

Oil brand & grade: UNKNOWN
Sample #: C-983719
Date Sampled: 11/08/22
Date Analyzed: 11/08/22
Work order: 22C180703
Client Ref #:

Sample Score:

Your Sample Score: 5

Rankings: 0-3 Normal, 4-6 Reportable, 7-10 Critical

Normal

Reportable

Critical

Trend Graphs

