

## ENGINE

EQUIP NUM: 01

SERIAL NUMBER: 1ZDS780AJMF127136

T010-55216-0523

SHOP JOB NUM : 001

SAMPLE SHIP TIME (days) : 4

AG MACHINERY MATE

LOCATION: WARRACKNABEAL

RECEIVED DATE: 04-Aug-25



## Action Required

LOW OIL VISCOSITY AND FUEL TEST INDICATE A HIGH LEVEL OF FUEL DILUTION. CHECK WITH ENGINE MANUFACTURER THE MAXIMUM ALLOWABLE FUEL DILUTION PERCENTAGE. COPPER LEVEL APPEARS HIGH; LEAD & TIN LEVELS APPEAR SLIGHTLY HIGH. THIS MAY INDICATE BEARINGS, BUSHING, THRUST WASHER OR ANY BRONZE COMPONENT WEAR. INVESTIGATE SOURCE OF FUEL DILUTION. SUGGEST CUT OPEN FILTER(S) AND INSPECT FOR DEBRIS. POSSIBLE CAUSES OF FUEL DILUTION ARE : LEAKING INJECTORS, INJECTOR O-RINGS, INJECTOR FAILURES, FUEL TRANSFER PUMP AND ENGINE OVER FUELING. RESAMPLE AFTER INSPECTION OR ANY REPAIR. MORE SAMPLES NEEDED TO DEVELOP A TREND.

Interp By: Hon Yin Tham

Interpreted On: 05-Aug-25

## SAMPLE INFORMATION



Sampled Date	31-Jul-25
Sample Id	T010-55216-0523
Lab Date	04-Aug-25
Meter [Hr]	1209
Comp Meter [Hr]	1209
Meter On Fluid	300
Fluid Brand	JOHNDEERE
Fluid Weight	15W-40
Fluid Type	ENGINE OIL
Fluid Change	N
Filter Change	N
Total Fluid Added	0

## PREVIOUS SAMPLE

For additional sample history, go to:

[S.O.S WEB](#)

## CONDITION / CONTAMINATION

31-Jul-25

## VISCOSITY (CENTISTOKES) ASTM D445

V100 Viscosity at 100 C 10.92

## VISCOSITY (CENTISTOKES) ASTM D445

V40 Viscosity at 40 C 73.09

## VISCOSITY INDEX

VI Viscosity Index 138

## WEAR LEVELS / ADDITIVES

31-Jul-25

ELEMENTAL ANALYSIS (PPM) ASTM D5185 [OIL] / ASTM D6130 [COOLANT]		
Cu	Copper	81
Fe	Iron	21
Cr	Chromium	1
Al	Aluminum	2
Pb	Lead	5
Sn	Tin	9
Si	Silicon	7
Na	Sodium	7
K	Potassium	1
Mo	Molybdenum	176
Ni	Nickel	2
Ag	Silver	0
Ti	Titanium	0
V	Vanadium	0
Mn	Manganese	0
Cd	Cadmium	0
Ca	Calcium	1112
P	Phosphorus	1003
Zn	Zinc	1047
Mg	Magnesium	887
Ba	Barium	0
B	Boron	90

## INFRARED (UFM) ASTM E2412

ST	Soot	11
OXI	Oxidation	15
SUL	Sulfate By-Product	20
NIT	Nitration	0

## WATER - HOTPLATE

W Water N

## FUEL DILUTION (SCREEN)

F Fuel P

## FUEL DILUTION (%) ASTM D7593

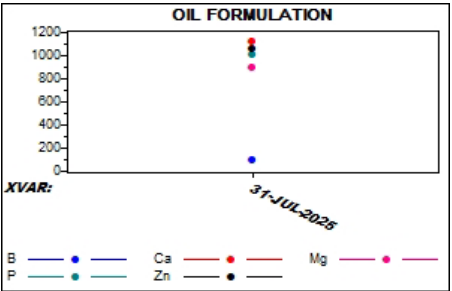
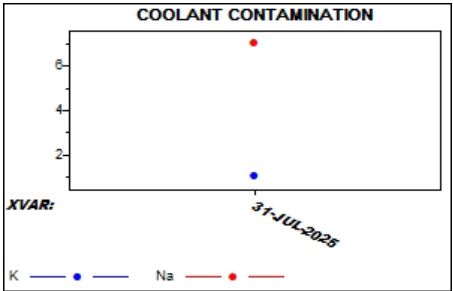
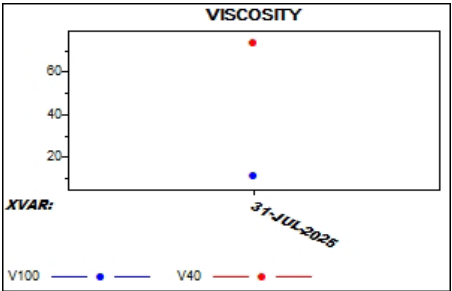
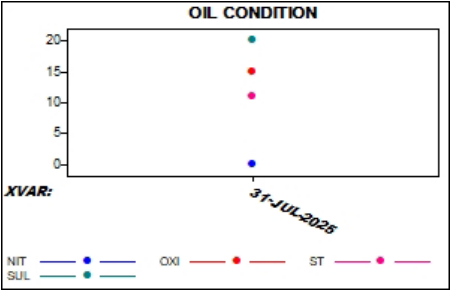
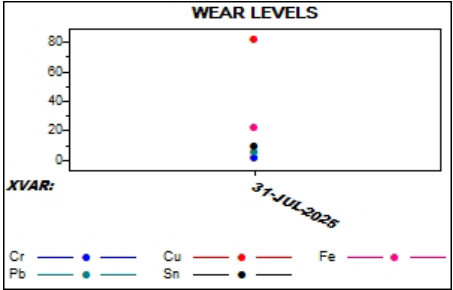
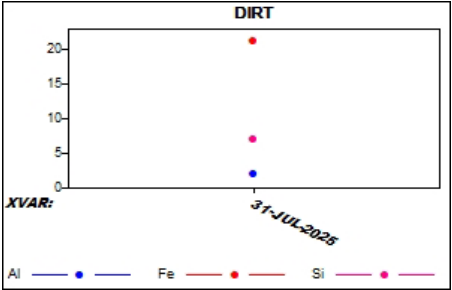
PFc Percent Fuel 9.54

## CLEANLINESS

31-Jul-25

## FERROUS DEBRIS

PQI PQ Index 0



Report Comment

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