

Limit/Abn **Current** 

History1

History2

UOM Method

## Machine Id JOHN DEERE 317G 1T0317GJHKJ352212 Component Diesel Engine {not provided} (--- GAL)

Test

RECOMMENDATION

WEAF	2		
Culinder	oronk	or oom	abot

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We recommend that you drain the oil and perform a filter service on this component if not already done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.	Sample Number		Client Info		JR0194342	JR0138500	JR0079773
	Sample Date		Client Info		21 Dec 2023	19 Jan 2023	04 Mar 2021
	Machine Age	hrs	Client Info		1406	1096	492
	Oil Age	hrs	Client Info		0	0	500
	Filter Age	hrs	Client Info		0	0	500
	Oil Changed		Client Info		N/A	N/A	Changed
	Filter Changed		Client Info		N/A	N/A	Changed
	Sample Status				SEVERE	ABNORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>51	<b>4</b> 01	44	30
Cylinder, crank, or cam shaft wear is indicated. Bearing and/or bushing wear is indicated.	Chromium	ppm	ASTM D5185m	>11	936	2	2
	Nickel	ppm	ASTM D5185m	>5	4	<1	<1
	Titanium	ppm	ASTM D5185m		5	<1	<1
	Silver	ppm	ASTM D5185m	>3	0	0	<1
	Aluminum	ppm	ASTM D5185m	>31	<b>100</b>	<b>1</b> 24	17
	Lead	ppm	ASTM D5185m	>26	5	<1	<1
	Copper	ppm	ASTM D5185m	>26	<b>4</b> 2	10	25
	Tin	ppm	ASTM D5185m	>4	<u> </u>	0	<1
	Vanadium	ppm	ASTM D5185m		<1	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Ciliaan			00	001	A 01	00
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	281	_ 31	32
Elemental levels of silicon (Si) and aluminum (AI) indicate alumina-	Full	ррп	ASTIVI DOTODITI	>20	5	.1.0	2
silicate (coarse dirt) ingress.	Fuer			>2.1	<1.0	<1.0	<1.0
	Water		WC Method	>0.21	NEG	NEG	NEG
	Giycol Cast 0/	0/		0	NEG	NEG	NEG
	SOOL %	%	*ASTM D7844	>3	10.0	0.7	0.3
	Nitration	ADS/CIII	*ASTM D7624	>20	10.3	10.5	7.9
	Sultation	ADS/.1mm	*)//avial	>30	25.7	24.7	22.8
	SIII	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris Carad/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
		scalar	visual		NORML	NORIVIL	NORIVIL
		Scalal	VISUAI	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	5	<1	3
	Boron	ppm	ASTM D5185m		183	152	244
The oil is no longer serviceable due to the presence of contaminants.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		241	242	249
	Manganese	ppm	ASTM D5185m		5	<1	<1
	Magnesium	ppm	ASTM D5185m		863	780	785
	Calcium	ppm	ASTM D5185m		1456	1458	1538
	Dhaanharua	mag	ASTM D5185m		910	737	903
	FIIOSPIIOIUS						
	Zinc	ppm	ASTM D5185m		1088	917	1046
	Zinc Sulfur	ppm ppm	ASTM D5185m ASTM D5185m		1088 2945	917 3260	1046 2860
	Zinc Sulfur Oxidation	ppm ppm Abs/.1mm	ASTM D5185m ASTM D5185m *ASTM D7414	>25	1088 2945 19.8	917 3260 19.5	1046 2860 17.4
	Zinc Sulfur Oxidation Base Number (BN)	ppm ppm Abs/.1mm mg KOH/g	ASTM D5185m ASTM D5185m *ASTM D7414 ASTM D2896	>25	1088 2945 19.8 8.3	917 3260 19.5 8.4	1046 2860 17.4 9.3

## The oil is no longer serviceable due to the presence of contam



Test Package : CONST (Additional Tests: TBN) Contact: NICK GALLAHER Certificate L2367 NGALLAHER@JRENET.COM To discuss this sample report, contact Customer Service at 1-800-237-1369. \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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