

[B AND K EXCAVATING] JOHN DEERE 317G 1P0317GJHPJ436680

Diesel Engine

DIESEL ENGINE OIL SAE 40 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm.	Sample Number		Client Info		JR0195586	JR0184831	
	Sample Date		Client Info		07 Jul 2024	29 Dec 2023	
	Machine Age	hrs	Client Info		0	250	
	Oil Age	hrs	Client Info		0	250	
	Filter Age	hrs	Client Info		0	250	
	Oil Changed		Client Info		N/A	Changed	
	Filter Changed		Client Info		N/A	Changed	
	Sample Status				NORMAL	NORMAL	
					•••	00	
WEAR	Iron	ppm	ASTM D5185m		28	23	
All component wear rates are normal.	Chromium Nickel	ppm	ASTM D5185m ASTM D5185m		2	<1 0	
	Titanium	ppm	ASTM D5185m	>0	<1 1	0	
	Silver	ppm	ASTM D5185m	. 2	י <1	0	
	Aluminum	ppm	ASTM D5185m		6	6	
	Lead	ppm ppm	ASTM D5185m		ہ <1	0	
	Copper	ppm	ASTM D5185m		8	21	
	Tin	ppm	ASTM D5185m		1	0	
	Vanadium	ppm	ASTM D5185m	~ 1	<1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	13	39	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	2	3	
	Fuel		WC Method	>2.1	<1.0	0.8	
	Water		WC Method	>0.21	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.6	0.4	
	Nitration	Abs/cm	*ASTM D7624	>20	9.1	9.2	
	Sulfation	Abs/.1mm	*ASTM D7415		21.6	24.5	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor Emulsified Water	scalar	*Visual	NORML	NORML	NORML	
	Emuisitied water	scalar	*Visual	>0.21	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>216	5	13	
	Boron	ppm	ASTM D5185m	250	100	264	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m	100	101	251	
	Manganese	ppm	ASTM D5185m		1	0	
	Magnesium	ppm	ASTM D5185m	450	495	694	
	Calcium	ppm	ASTM D5185m	3000	1903	1669	
	Phosphorus	ppm	ASTM D5185m	1150	1095	920	
	Zinc	ppm	ASTM D5185m	1350	1369	1098	
	0.16.00		AOTA DEADE	1050	0544	0740	

Sulfur

Oxidation

Visc @ 100°C cSt

ppm ASTM D5185m 4250

Abs/.1mm *ASTM D7414 >25

ASTM D445 14.4

Base Number (BN) mg KOH/g ASTM D2896 8.5

3719

22.8

8.3

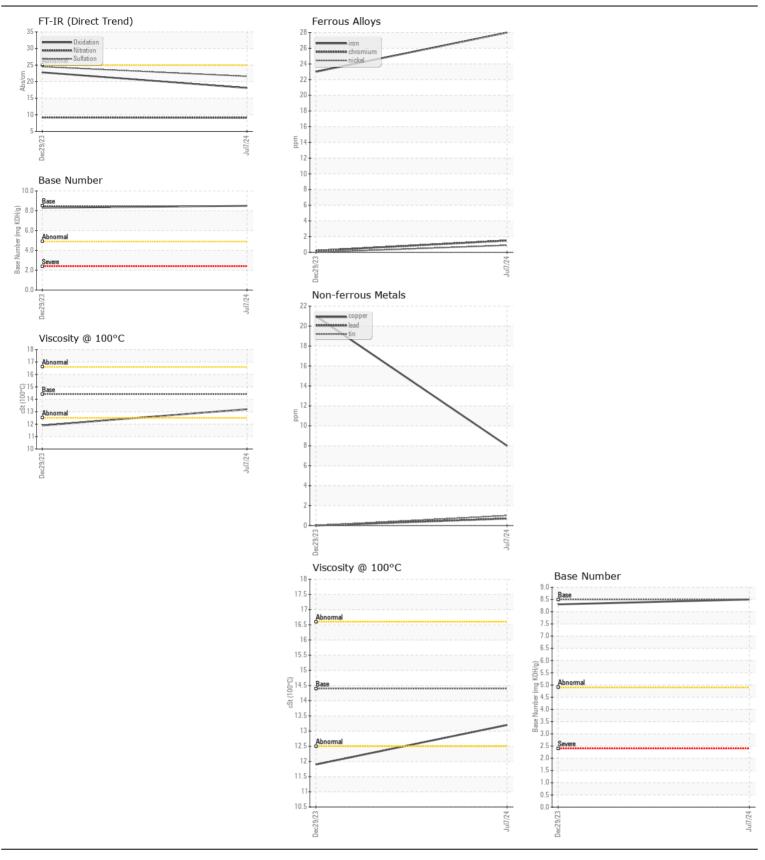
11.9

3511

18.1

8.5

13.2



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **JRE - STEPHENSON** Sample No. : JR0195586 Received 245 YARDMASTER COURT : 08 Jul 2024 Lab Number : 06229936 Tested : 09 Jul 2024 STEPHENSON, VA Unique Number : 11113429 Diagnosed : 09 Jul 2024 - Wes Davis US 22656-1761 Test Package : CONST (Additional Tests: TBN) Contact: PHIL DAUGHERTY Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. pdaugherty@jamesriverequipment.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: x: F: (540)693-2588 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: PHIL DAUGHERTY - JAMWIN Page 2 of 2