

Machine Id **JOHN DEERE S780 1H0S780SEKT806479** Component **Diesel Engine** Fluid {not provided} (--- GAL)

RECOMMENDATION

We advise that you check the fuel injection system. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

Cylinder, crank, or cam shaft wear is indicated. Bearing and/or bushing wear is indicated.

CONTAMINATION

WEAR

There is a high amount of fuel present in the oil.

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR020177 ⁻	1	
Sample Date		Client Info		12 Feb 202	4	
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Filter Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Filter Changed		Client Info		N/A		
Sample Status				SEVERE		
Iron	ppm	ASTM D5185m	>51	A 84		
Chromium	ppm	ASTM D5185m	>11	<1		
Nickel	ppm	ASTM D5185m	>5	2		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>31	2		
Lead	ppm	ASTM D5185m	>26	A 70		
Copper	ppm	ASTM D5185m	>26	<u> </u>		
Tin	ppm	ASTM D5185m	>4	6		
Vanadium	ppm	ASTM D5185m		0		
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Silicon	ppm	ASTM D5185m	>22	8		
Potassium	ppm	ASTM D5185m	>20	11		
Fuel	%	ASTM D3524	>2.1	6.7		
Water		WC Method	>0.21	NEG		
Glycol		WC Method		NEG		
Soot %	%	*ASTM D7844	>3	0.7		
Nitration	Abs/cm	*ASTM D7624	>20	12.5		
Sulfation	Abs/.1mm	*ASTM D7415	>30	30.9		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORMI		
Odor	scalar	*Visual	NORML	NORMI		
Emulsified Water	scalar	*Visual	>0.21	NEG		
					-	
Sodium	ppm	ASTM D5185m	>31	16		
Boron	ppm	ASTM D5185m		26		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		60		
Manganese	ppm	ASTM D5185m		1		
Magnesium	ppm	ASTM D5185m		206		
Calcium	ppm	ASTM D5185m		2065		
Phosphorus	ppm	ASTM D5185m		867		
Zinc	ppm	ASTM D5185m		1176		
Sulfur	ppm	ASTM D5185m		3141		
Oxidation	Abs/.1mm	*ASTM D7414	>25	27.0		
Base Number (BN)	mg KOH/g	ASTM D2896		3.8		
Visc @ 100°C	cSt	ASTM D445		10.7		



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **JRE - WAKEFIELD** Sample No. : JR0201771 10489 GENERAL MAHONE HWY Received : 13 Feb 2024 R Lab Number : 06087083 : 15 Feb 2024 WAKEFIELD, VA Tested Unique Number : 10874528 US 23888 Diagnosed : 15 Feb 2024 - Doug Bogart Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN) Contact: BILL ACKER Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. backer@jamesriverequipment.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (757)899-3232 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (757)899-6464

Contact/Location: BILL ACKER - JAMWAK

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