

[127282] JOHN DEERE 460P 1DW460PACPFB07027 Component Diesel Engine Fluid JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- QTS)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		WE0007779	WE0007002	
	Sample Date		Client Info		14 Jun 2024	20 Mar 2024	
	Machine Age	hrs	Client Info		968	479	
	Oil Age	hrs	Client Info		0	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				ABNORMAL	ABNORMAL	
WEAR	Iron	ppm	ASTM D5185m	>51	21	33	
	Chromium	ppm	ASTM D5185m	>11	<1	<1	
The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other component wear rates are normal.	Nickel	ppm	ASTM D5185m	>5	<1	0	
	Titanium	ppm	ASTM D5185m		<1	0	
	Silver	ppm	ASTM D5185m	>3	<1	0	
	Aluminum	ppm	ASTM D5185m	>31	5	4	
	Lead	ppm	ASTM D5185m	>26	6	19	
	Copper	ppm	ASTM D5185m	>26	🔺 135	▲ 522	
	Tin	ppm	ASTM D5185m	>4	6	10	
	Vanadium	ppm	ASTM D5185m		<1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	10	13	
	Potassium	ppm	ASTM D5185m	>20	3	4	
There is no indication of any contamination in the oil.	Fuel	%	ASTM D3524		<1.0	0.4	
	Water		WC Method	>0.21	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.3	0.2	
	Nitration	Abs/cm	*ASTM D7624	>20	8.8	8.6	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.6	22.4	
	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	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	4	11	
	Boron	ppm	ASTM D5185m		157	179	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185m		2	1	
	Molybdenum	ppm	ASTM D5185m		275	251	
	Manganese	ppm	ASTM D5185m		2	10	
	Magnesium	ppm	ASTM D5185m		805	854	
	Calcium	ppm	ASTM D5185m		1372	1521	
	Phosphorus	ppm	ASTM D5185m		837	959	
	Zinc	ppm	ASTM D5185m		1031	1108	
	Sulfur	ppm	ASTM D5185m		2898	3626	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.5	16.8	
	D			10.0			

Base Number (BN) mg KOH/g ASTM D2896 13.6

ASTM D445 15.4

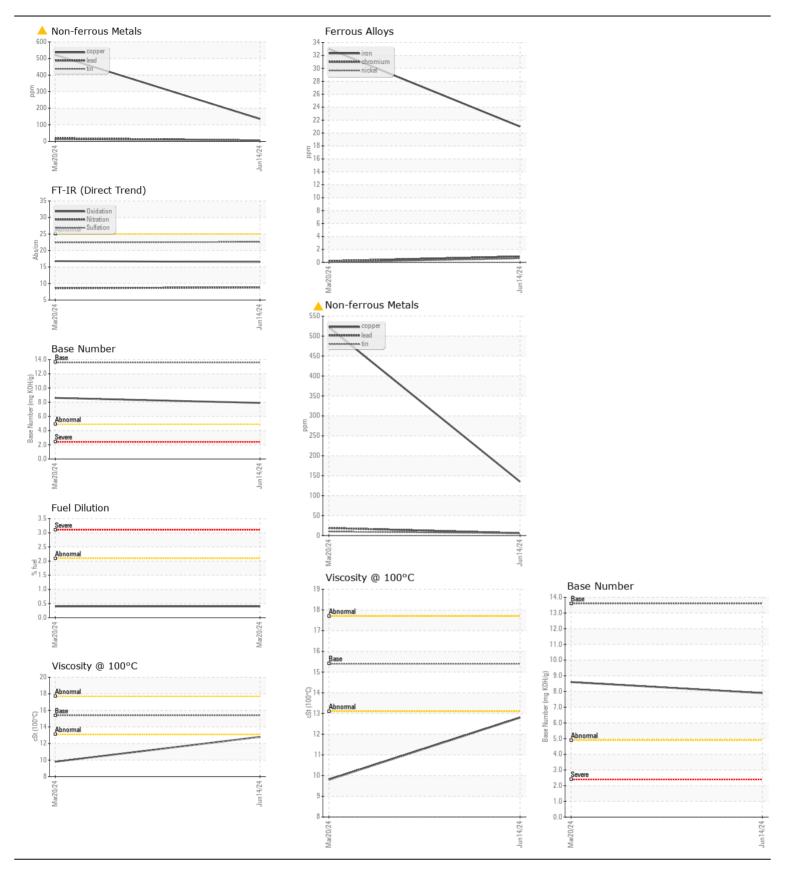
Visc @ 100°C cSt

8.6

9.8

7.9

12.8



WARRIOR TRACTOR AND EQUIPMENT - NORTHPORT Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : WE0007779 Received P.O. BOX 412 : 18 Jun 2024 Lab Number : 06213091 Tested NORTHPORT, AL : 19 Jun 2024 Unique Number : 11085955 Diagnosed : 20 Jun 2024 - Don Baldridge US 35476 Test Package : CONST (Additional Tests: FuelDilution, TBN) Contact: CRAIG ANDOE Certificate L2367 serve01@warriortractor.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. T: (205)339-0300 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

Contact/Location: CRAIG ANDOE - WARNOR Page 2 of 2