WEAR
CONTAMINATION
FLUID CONDITION

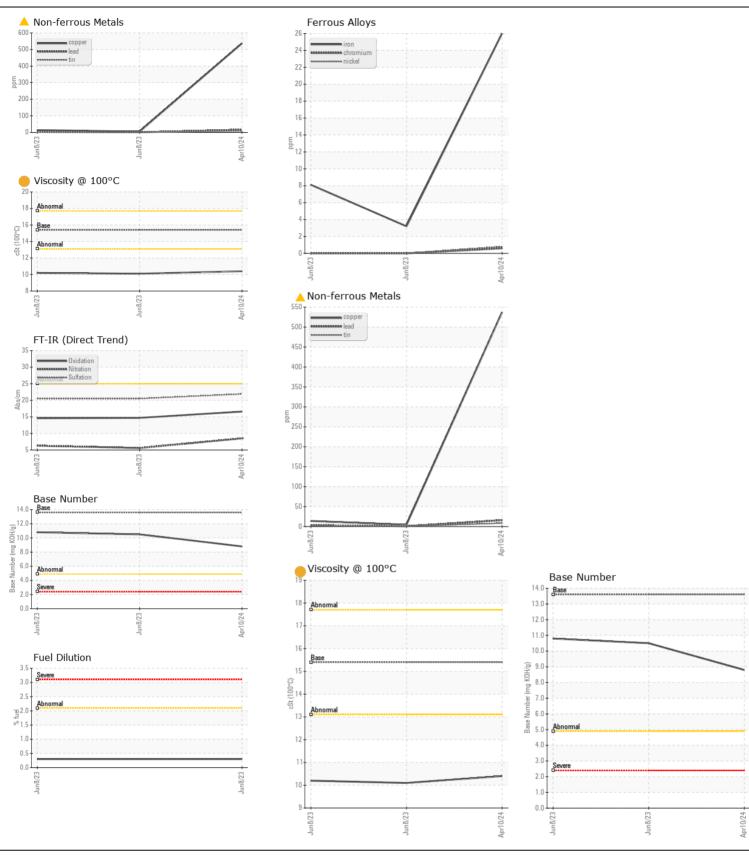
ABNORMAL NORMAL ATTENTION

Machine Id

JOHN DEERE 460P 1DW460PAKPFB06870

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		JR0204702	JR0172081	JR0172080
	Sample Date		Client Info		10 Apr 2024	08 Jun 2023	08 Jun 2023
	Machine Age	hrs	Client Info		465	3	5
	Oil Age	hrs	Client Info		0	3	5
	Filter Age	hrs	Client Info		0	5	5
	Oil Changed		Client Info		N/A	Not Changd	Not Changd
	Filter Changed		Client Info		N/A	Not Changd	Not Chango
	Sample Status				ABNORMAL	ATTENTION	ATTENTION
WEAR 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 metal levels are typical for a new component breaking in.	Iron	ppm	ASTM D5185m	>51	26	8	3
	Chromium	ppm	ASTM D5185m	>11	<1	0	0
	Nickel	ppm	ASTM D5185m		<1	0	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		4	<1	<1
	Lead		ASTM D5185m		16	3	<1
	Copper	ppm	ASTM D5185m		537	14	5
	Tin		ASTM D5185m		8	2	<1
	Vanadium	ppm	ASTM D5185m	24	<1	0	0
	White Metal	ppm scalar	*Visual	NONE	NONE	NONE	NONE
				NONE		NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	10	9	8
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	2	5	4
	Fuel	%	ASTM D3524	>2.1	<1.0	0.3	0.3
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol	%	*ASTM D2982		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.2	0.1	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	8.5	5.6	6.3
	Sulfation	Abs/.1mm	*ASTM D7415		21.9	20.5	20.5
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water		*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	nnm	ASTM D5185m	√31	7	7	4
	Boron	ppm	ASTM D5185m	/01	198	273	279
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Barium		ASTM D5185m		<1	0	0
	Molybdenum	ppm	ASTM D5185m		234	239	252
	Manganese	ppm	ASTM D5165III			7	1
	Magnesium	ppm			4 752		
	Calcium	ppm	ASTM D5185m			811	836
		ppm	ASTM D5185m		1600	1409	1540
	Phosphorus	ppm	ASTM D5185m		950	881	936
	Zinc	ppm	ASTM D5185m		1121	1069	1153
	Sulfur	ppm	ASTM D5185m	0.5	3528	3737	3933
	Oxidation	Abs/.1mm	*ASTM D7414		16.6	14.7	14.6
	Base Number (BN)				8.8	10.5	10.8
	Visc @ 100°C	cSt	ASTM D445	15.4	10.4	10.1	10.2







Certificate L2367

Report Id: JAMGRE [WUSCAR] 06145555 (Generated: 04/14/2024 12:01:07) Rev: 2

Laboratory Sample No. Unique Number: 10970363

Lab Number : 06145555

: JR0204702

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Received **Tested** Diagnosed

: 11 Apr 2024 : 14 Apr 2024

: 14 Apr 2024 - Don Baldridge Test Package : CONST (Additional Tests: FuelDilution, Glycol, PercentFuel, TBN) 411 SOUTH REGIONAL ROAD GREENSBORO, NC US 27409 Contact: NICK GALLAHER

JRE - GREENSBORO

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. NGALLAHER@JRENET.COM T: (336)668-2762

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