



WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	ABNORMAL

Machine Id
JOHN DEERE 544 P 1DW544PALMLZ12405

Component
Diesel Engine

Fluid
{not provided} (--- GAL)

RECOMMENDATION

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

WEAR

All component wear rates are normal.

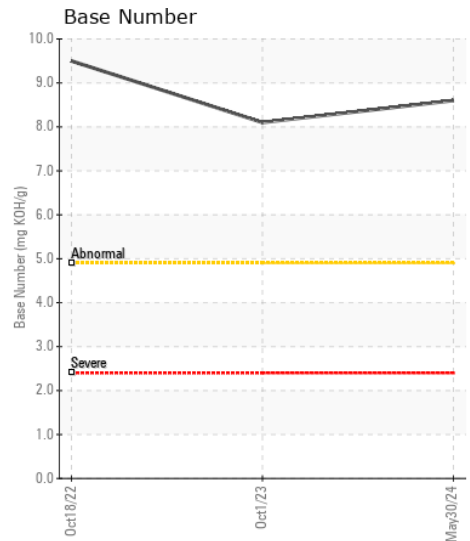
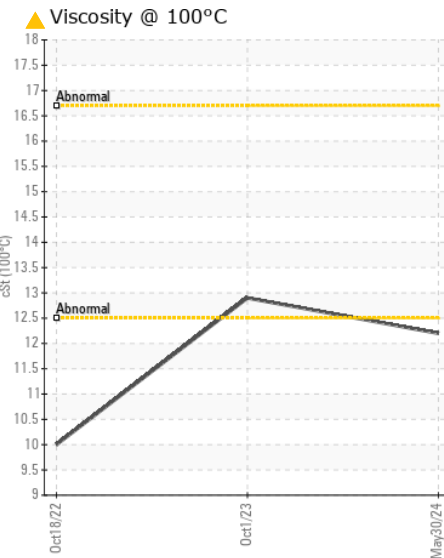
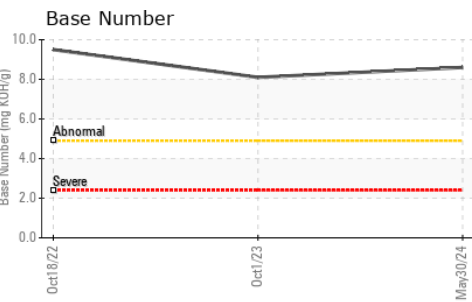
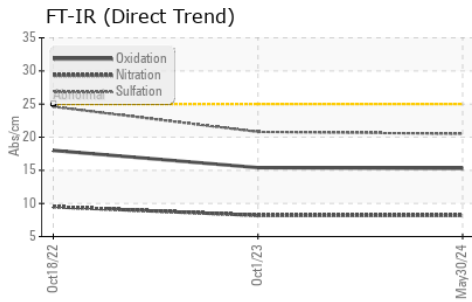
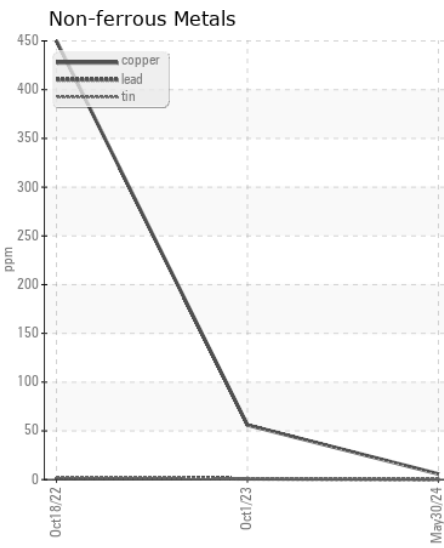
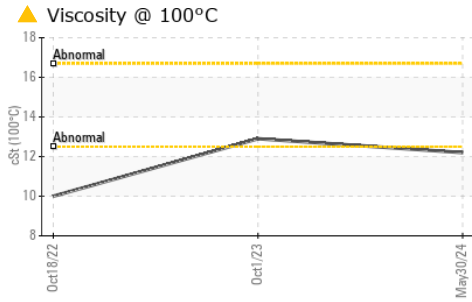
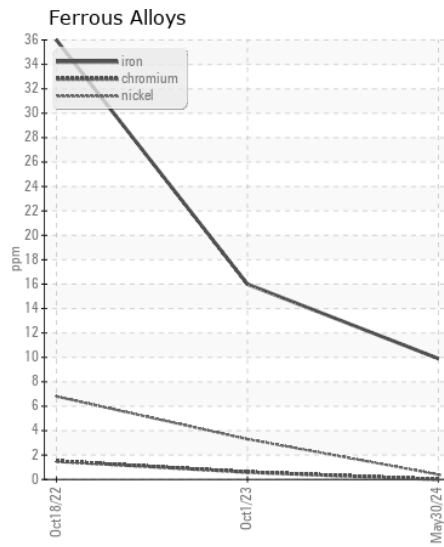
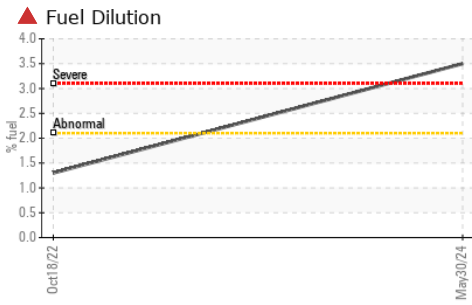
CONTAMINATION

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

FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0213696	JR0187083	JR0145559
Sample Date		Client Info		30 May 2024	01 Oct 2023	18 Oct 2022
Machine Age	hrs	Client Info		1431	927	520
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	NORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>51	10	16	36
Chromium	ppm	ASTM D5185m	>11	0	<1	2
Nickel	ppm	ASTM D5185m	>5	<1	3	7
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>31	5	3	3
Lead	ppm	ASTM D5185m	>26	0	<1	2
Copper	ppm	ASTM D5185m	>26	6	56	▲ 450
Tin	ppm	ASTM D5185m	>4	<1	1	2
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>22	6	8	11
Potassium	ppm	ASTM D5185m	>20	0	4	0
Fuel	%	ASTM D3524	>2.1	▲ 3.5	<1.0	1.3
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.3	0.4	0.7
Nitration	Abs/cm	*ASTM D7624	>20	8.2	8.2	9.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.5	20.8	24.6
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	scalar	*Visual	>0.21	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m	>31	2	6	5
Boron	ppm	ASTM D5185m		271	329	225
Barium	ppm	ASTM D5185m		<1	<1	1
Molybdenum	ppm	ASTM D5185m		238	250	241
Manganese	ppm	ASTM D5185m		<1	2	5
Magnesium	ppm	ASTM D5185m		807	835	793
Calcium	ppm	ASTM D5185m		1304	1433	1457
Phosphorus	ppm	ASTM D5185m		905	890	877
Zinc	ppm	ASTM D5185m		1015	1079	1029
Sulfur	ppm	ASTM D5185m		3231	3021	3408
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.3	15.4	18.0
Base Number (BN)	mg KOH/g	ASTM D2896		8.6	8.1	9.5
Visc @ 100°C	cSt	ASTM D445		▲ 12.2	12.9	10.0



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0213696 **Received** : 31 May 2024
Lab Number : 06196388 **Tested** : 05 Jun 2024
Unique Number : 11058511 **Diagnosed** : 05 Jun 2024 - Wes Davis
Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN)

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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)