

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area [W46763] Machine Id JOHN DEERE 644K 1DW644KZCED662172 Component

Component Hydraulic System Fluid JOHN DEERE HYDRAU (30 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

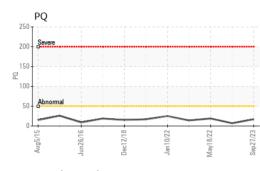
Fluid Condition

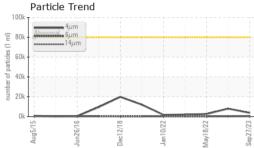
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

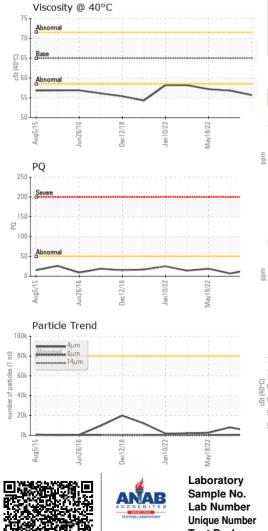
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		JR0179190	JR0148446	JR0124557
Sample Date		Client Info		27 Sep 2023	31 Oct 2022	18 May 2022
Machine Age	hrs	Client Info		7961	6967	6453
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>50	17	7	19
Iron	ppm	ASTM D5185m	>71	5	6	5
Chromium	ppm	ASTM D5185m	>11	1	3	2
Nickel	ppm	ASTM D5185m	>6	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m		0	<1	<1
Aluminum	ppm	ASTM D5185m	>11	<1	4	2
Lead	ppm	ASTM D5185m	>13	<1	<1	<1
Copper	ppm	ASTM D5185m	>21	2	3	2
Tin	ppm	ASTM D5185m	>5	0	<1	0
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		74	41	43
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		2	7	7
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		38	74	81
Calcium	ppm	ASTM D5185m	87	1989	1843	1737
Phosphorus	ppm	ASTM D5185m	727	902	892	901
Zinc	ppm	ASTM D5185m	900	1166	1118	1142
Sulfur	ppm	ASTM D5185m	1500	5114	4660	3312
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>24	8	7	5
Sodium	ppm	ASTM D5185m	>21	3	2	2
Potassium	ppm	ASTM D5185m	>20	0	2	2
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>80000	3688	8008	2641
Particles >6µm		ASTM D7647	>5000	438	257	159
Particles >14µm		ASTM D7647	>640	28	21	12
Particles >21µm		ASTM D7647	>160	6	6	3
Particles >38µm		ASTM D7647	>40	1	1	0
Particles >71µm		ASTM D7647	>10	0	1	0
Oil Cleanliness		ISO 4406 (c)	>23/19/16	19/16/12	20/15/12	19/14/11
FLUID DEGRADA		method	limit/base	current	history1	history2



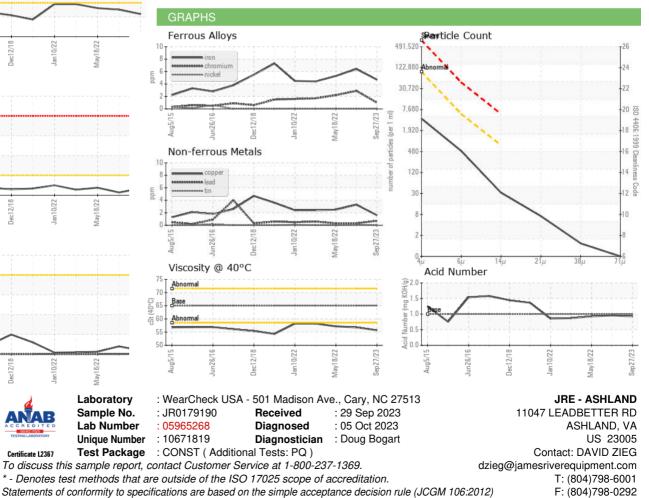
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	>0.075	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	65	55.7	56.8	57.2
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
Color				•		
Bottom						



Contact/Location: DAVID ZIEG - JAMASH