

OIL ANALYSIS REPORT

Sample Rating Trend



JOHN DEERE 624L 624L UNIT 1

Transmission (Manual)

TDH FLUID SAE 75W80 (--- 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.

		May2023	Jul2023	Oct2023 Oct2023	Nov2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PE0002529	PE0002507	PE0002504
Sample Date		Client Info		15 Nov 2023	20 Oct 2023	06 Oct 2023
Machine Age	hrs	Client Info		5959	5740	5585
Oil Age	hrs	Client Info		5740	5585	5585
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>95	21	7	12
Iron	ppm	ASTM D5185m	>200	33	26	25
Chromium	ppm	ASTM D5185m	>5	<1	0	0
Nickel	ppm	ASTM D5185m	>5	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>7	0	<1	0
Aluminum	ppm	ASTM D5185m	>25	2	2	<1
Lead	ppm	ASTM D5185m	>45	<1	0	0
Copper	ppm	ASTM D5185m	>225	2	1	1
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	10	1	0	2
Barium	ppm	ASTM D5185m	10	9	0	0
Molybdenum	ppm	ASTM D5185m	10	<1	0	7
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m	100	83	94	86
Calcium	ppm	ASTM D5185m	3500	3107	3110	2966
Phosphorus	ppm	ASTM D5185m	1150	1003	1065	978
Zinc	ppm	ASTM D5185m	1150	1124	1221	1133
Sulfur	ppm	ASTM D5185m	5000	3809	3707	3625
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>125	16	15	15
Sodium	ppm	ASTM D5185m		0	0	<1
Potassium	ppm	ASTM D5185m	>20	2	0	0
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	1026	1745	1522
Particles >6µm		ASTM D7647	>2500	228	439	260
Particles >14µm		ASTM D7647		18	37	21
Particles >21µm		ASTM D7647		5	8	4
Particles >38µm		ASTM D7647		0	0	0
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Oleanlin and		100 (100 ()	00/40/45	4 7 /4 7 /4 4	10/10/10	10/15/10

ISO 4406 (c) >20/18/15

17/15/11

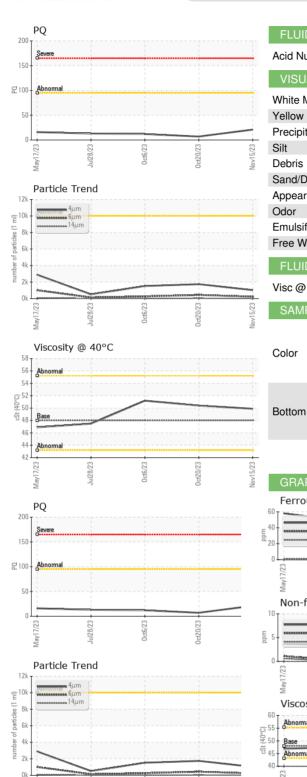
Oil Cleanliness

18/15/12

18/16/12

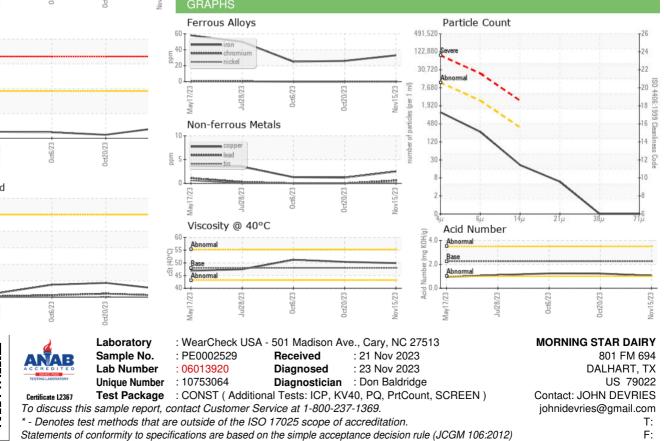


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FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	2.25	1.05	1.23	1.24
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	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	>0.1	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	48	49.9	50.4	51.2
SAMPLE IMAGES		method	limit/base	current	history1	history2





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