

Machine Id JOHN DEERE 644 P 1DW644PAEMLZ11990

Rear Differential

JOHN DEERE HY-GARD HYD/TRANS (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0218747	JR0185097	
	Sample Date		Client Info		11 Jun 2024	06 Oct 2023	
	Machine Age	hrs	Client Info		1985	1470	
	Oil Age	hrs	Client Info		1985	1470	
	Filter Age	hrs	Client Info		515	1470	
	Oil Changed		Client Info		Changed	Not Changd	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	ABNORMAL	
WEAR	PQ		ASTM D8184		21	21	
	Iron	ppm	ASTM D5185m	<u>\500</u>	91	72	
All component wear rates are normal.	Chromium		ASTM D5185m		<1	<1	
	Nickel	ppm ppm	ASTM D5185m		<1	<1	
	Titanium	ppm	ASTM D5185m	>10	<1	<1	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m	>25	1	<1	
	Lead	ppm	ASTM D5185m		63	▲ 59	
	Copper	ppm	ASTM D5185m		234	▲ 212	
	Tin	ppm	ASTM D5185m		2	2	
	Vanadium	ppm	ASTM D5185m	210	0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
						- HONE	
CONTAMINATION There is no indication of any contamination in the fluid.	Silicon	ppm	ASTM D5185m	>75	6	7	
	Potassium	ppm	ASTM D5185m	>20	4	4	
	Water		WC Method	>.2	NEG	NEG	
	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	>.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		5	4	
The condition of the fluid is acceptable for the time in service.	Boron	ppm	ASTM D5185m	6	6	3	
	Barium	ppm	ASTM D5185m	0	5	7	
	Molybdenum	ppm	ASTM D5185m	0	1	0	
	Manganese	ppm	ASTM D5185m		4	4	
	Magnesium	ppm	ASTM D5185m	145	98	97	
	Calcium	ppm	ASTM D5185m	3570	3423	3204	
	Phosphorus	ppm	ASTM D5185m	1290	1032	1006	
	Zinc	ppm	ASTM D5185m	1640	1237	1214	
	Sulfur	ppm	ASTM D5185m		3599	3844	

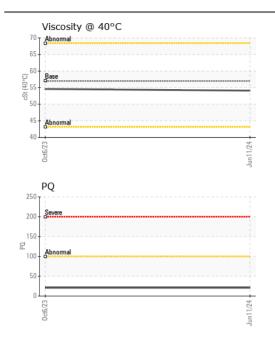
Visc @ 40°C

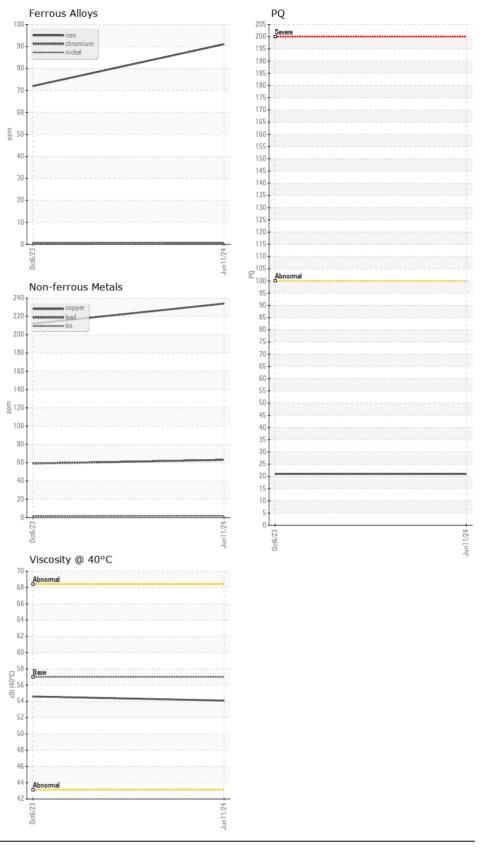
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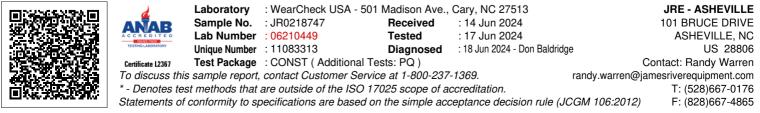
ASTM D445 57.0 Contact/Location: Randy Warren - VANASH

54.6

54.1







Contact/Location: Randy Warren - VANASH Page 2 of 2