

## [G15076] Machine Id JOHN DEERE 297532 Component Hydraulic System Fluid HITACHI HYDRAULIC SUPER EX 46HN (--- GAL)

RECOMMENDATION	ATION
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The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.



All component wear rates are normal.

## CONTAMINATION

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

## FLUID CONDITION

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WE0007259		
Sample Date		Client Info		09 May 2024		
Machine Age	hrs	Client Info		1061		
Oil Age	hrs	Client Info		0		
Filter Age	hrs	Client Info		0		
Oil Changed	1113	Client Info		Not Changd		
Filter Changed		Client Info		Changed		
Sample Status		Client Into		ABNORMAL		
PQ		ASTM D8184		14		
Iron	ppm	ASTM D5185m	>20	8		
Chromium	ppm	ASTM D5185m	>10	0		
Nickel	ppm	ASTM D5185m	>10	1		
Titanium	ppm	ASTM D5185m	210	0		
Silver	ppm	ASTM D5185m		<1		
Aluminum	ppm	ASTM D5185m	>10	2		
Lead		ASTM D5185m	>10	2 <1		
Copper	ppm	ASTM D5185m	>75	4		
Tin	ppm	ASTM D5185m	>10	4 <1		
Vanadium	ppm	ASTM D5185m	>10	<1 <1		
	ppm		NONE	<1 NONE		
White Metal	scalar	*Visual				
Yellow Metal	scalar	*Visual	NONE	NONE		
Silicon	ppm	ASTM D5185m	>20	3		
Potassium	ppm	ASTM D5185m	>20	2		
Water	ppiii	WC Method	>0.1	- NEG		
Particles >4µm		ASTM D7647	>5000	A 11402		
Particles >6µm		ASTM D7647	>1300	1361		
Particles >14µm		ASTM D7647	>1600	34		
Particles >21µm		ASTM D7647	>40	9		
Particles >38µm		ASTM D7647	>10	0		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	A 21/18/12		
Silt	scalar	*Visual	NONE	NONE		
Debris		*Visual	NONE	NONE		
Sand/Dirt	scalar scalar	*Visual	NONE	NONE		
		*Visual	NORML	NORE		
Appearance Odor	scalar		NORML	NORML		
Emulsified Water	scalar	*Visual *Visual	>0.1	NORML		
	scalar	visual	>0.1	NEG		
Sodium	ppm	ASTM D5185m		3		
Boron	ppm	ASTM D5185m		0		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		1		
Magnesium	ppm	ASTM D5185m		3		
Calcium		ASTM D5185m		2		
Phosphorus	ppm ppm	ASTM D5185m	827	440		
Zinc		ASTM D5185m	027	38		
Sulfur	ppm ppm	ASTM D5185m		527		
Acid Number (AN)	mg KOH/g	ASTM D5185111 ASTM D8045	0.06			
	ing tt∪⊓/g		0.00	0.10		

Visc @ 40°C cSt ASTM D445 47

WEAR

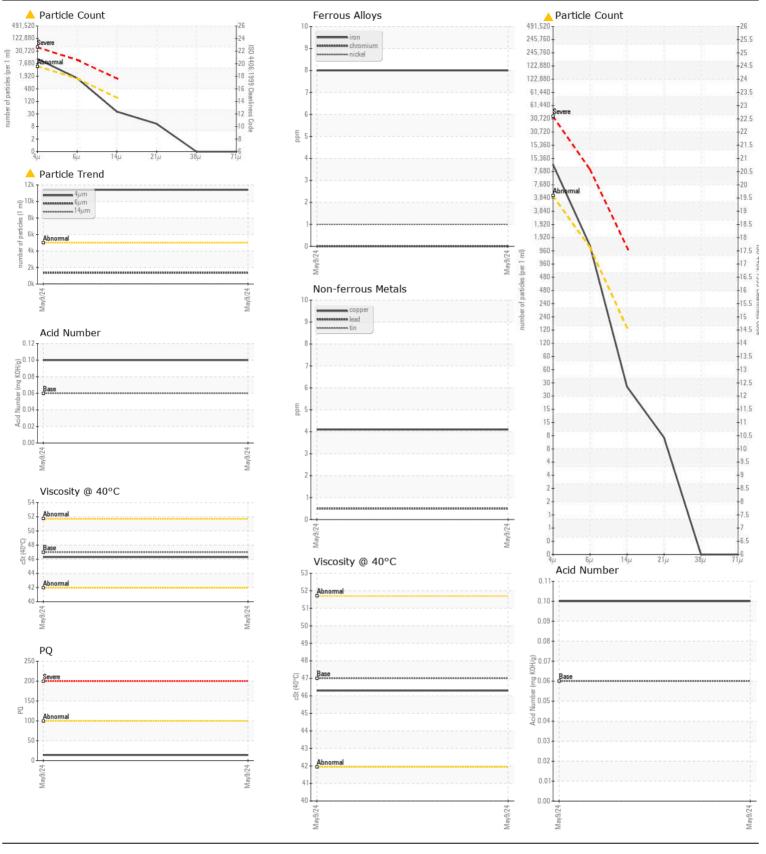
CONTAMINATION

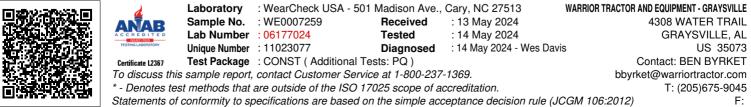
FLUID CONDITION

NORMAL

ABNORMAL NORMAL

46.3





Contact/Location: BEN BYRKET - WARGRAAL Page 2 of 2