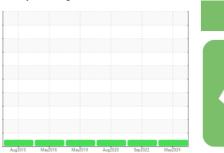


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

WIRTGEN W210I 1520-1039

Front Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

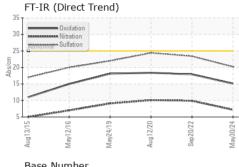
Fluid Condition

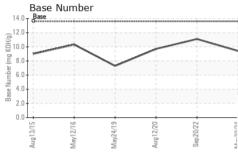
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

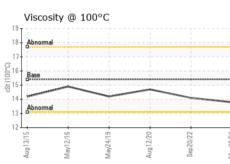
40 (GAL)		rangeoro	may2010 may2010		THOUSE I	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		JR0211404	JR0125539	JR0060330
Sample Date		Client Info		30 May 2024	20 Sep 2022	12 Aug 2020
Machine Age	hrs	Client Info		3512	2961	2488
Oil Age	hrs	Client Info		0	0	500
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	١	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	12	37	38
Chromium	ppm	ASTM D5185m	>20	<1	1	2
Nickel	ppm	ASTM D5185m	>4	<1	<1	2
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	<1	<1	<1
Aluminum	ppm	ASTM D5185m	>20	4	3	7
Lead	ppm	ASTM D5185m	>40	<1	<1	2
Copper	ppm	ASTM D5185m	>330	1	3	3
Tin	ppm	ASTM D5185m	>15	<1	<1	0
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		305	188	208
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		261	227	254
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		824	765	940
Calcium	ppm	ASTM D5185m		1373	1428	1876
Phosphorus	ppm	ASTM D5185m		973	825	1035
Zinc	ppm	ASTM D5185m		1103	1007	1232
Sulfur	ppm	ASTM D5185m		3458	3608	3025
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	10	10
Sodium	ppm	ASTM D5185m		4	18	3
Potassium	ppm	ASTM D5185m	>20	4	6	24
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.8	1.1
Nitration	Abs/cm	*ASTM D7624	>20	7.2	9.9	10.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.2	23.4	24.4
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.1	17.9	18.4
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	9.4	11.1	9.7
	0					

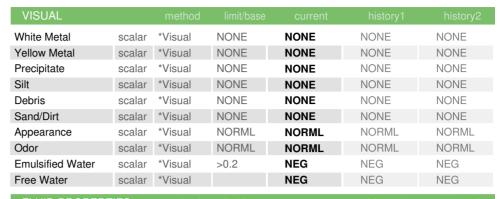


OIL ANALYSIS REPORT



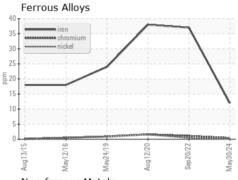


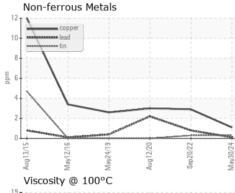


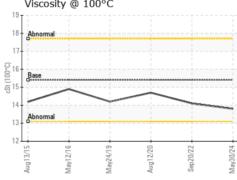


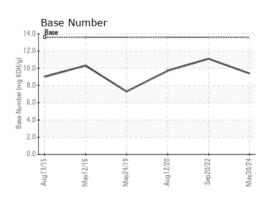
FLUID PROPER	TIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	14.1	14.7

GRAPHS













Certificate 12367

Laboratory Sample No.

: JR0211404 Lab Number : 06197460 Unique Number : 11059583

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 03 Jun 2024 **Tested** Diagnosed

: 04 Jun 2024 : 04 Jun 2024 - Wes Davis

JRE - ASHLAND 11047 LEADBETTER RD

ASHLAND, VA US 23005

Contact: DAVID ZIEG

Test Package : CONST (Additional Tests: TBN) To discuss this sample report, contact Customer Service at 1-800-237-1369.

dzieg@jamesriverequipment.com T: (804)798-6001

* - 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)

F: (804)798-0292 Contact/Location: DAVID ZIEG - JAMASH