WEAR CONTAMINATION FLUID CONDITION

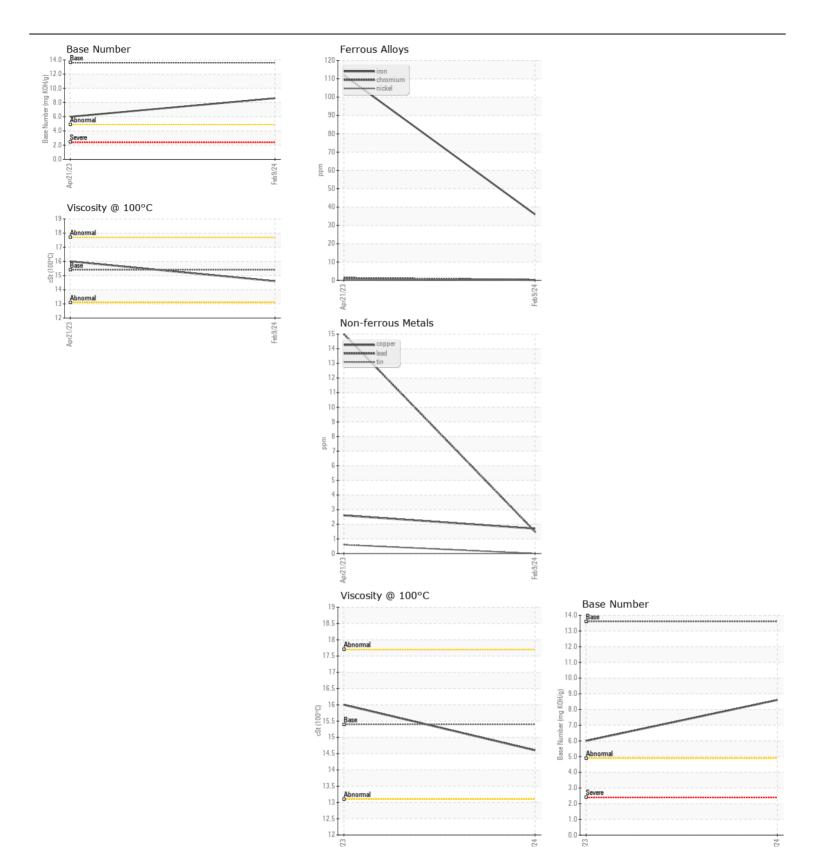
NORMAL NORMAL NORMAL

JOHN DEERE Water pump (S/N PE4045N009455)

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (4 GAL)

PECOMMENDATION	Toot	LIONA	Mathad	Limit/Aba	Current	Lliotomid	Lioton:0
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current JR0196326	History1	History2
Resample at the next service interval to monitor.	Sample Number Sample Date		Client Info		09 Feb 2024	JR0167714	
	Machine Age	hre	Client Info		2954	21 Apr 2023 2857	
	•	hrs			2954 97	2857	
	Oil Age	hrs	Client Info		97	0	
	Filter Age Oil Changed	hrs	Client Info			-	
	-				Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	ABNORMAL	
WEAR	Iron	ppm	ASTM D5185m	>51	36	<u> </u>	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>11	<1	1	
	Nickel	ppm	ASTM D5185m	>5	0	<1	
	Titanium	ppm	ASTM D5185m		<1	<1	
	Silver	ppm	ASTM D5185m	>3	0	0	
	Aluminum	ppm	ASTM D5185m		4	6	
	Lead	ppm	ASTM D5185m		2	15	
	Copper	ppm	ASTM D5185m		2	3	
	Tin	ppm	ASTM D5185m		0	<1	
	Vanadium	ppm	ASTM D5185m		<1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
ONTAMINATION	Silicon	ppm	ASTM D5185m	>22	8	10	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	3	0	
	Fuel		WC Method	>2.1	<1.0	<1.0	
	Water		WC Method	>0.21	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.7	2.8	
	Nitration	Abs/cm	*ASTM D7624	>20	7.5	10.7	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.7	28.9	
	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	>0.21	NEG	NEG	
LUB AANDITIAN							
LUID CONDITION	Sodium	ppm	ASTM D5185m	>31	0	2	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		279	130	
	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		271	252	
	Manganese	ppm	ASTM D5185m		0	2	
	Magnesium	ppm	ASTM D5185m		824	854	
	Calcium	ppm	ASTM D5185m		1387	1585	
	Phosphorus	ppm	ASTM D5185m		870	905	
	Zinc	ppm	ASTM D5185m		1051	1197	
	Sulfur	ppm	ASTM D5185m		2814	2904	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.4	22.0	
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.6	6.0	
				15.4		16.0	







Report Id: RWMCAS [WUSCAR] 06087085 (Generated: 02/14/2024 11:55:10) Rev: 1

Laboratory Sample No.

Lab Number : 06087085 Unique Number : 10874530

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0196326 Received : 13 Feb 2024 **Tested**

: 14 Feb 2024 Diagnosed : 14 Feb 2024 - Wes Davis Test Package : CONST (Additional Tests: TBN)

JRE - CASTLE HAYNE 113 CROWATAN ROAD CASTLE HAYNE, NC US 28429-5819

Contact: WILMINGTON SHOP

To discuss this sample report, contact Customer Service at 1-800-237-1369.

todd.simmons@jamesriverequipment.com;canastasio@wearcheck.com;canastasio@we T: (910)675-9211

* - 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)

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