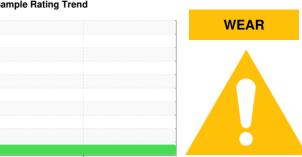


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

JOHN DEERE 85P 1FF085PACPJ000078

Diesel Engine

{not provided} (--- GAL)

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other metal levels are typical for a new component breaking in.

Contamination

Fuel content negligible. Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components.

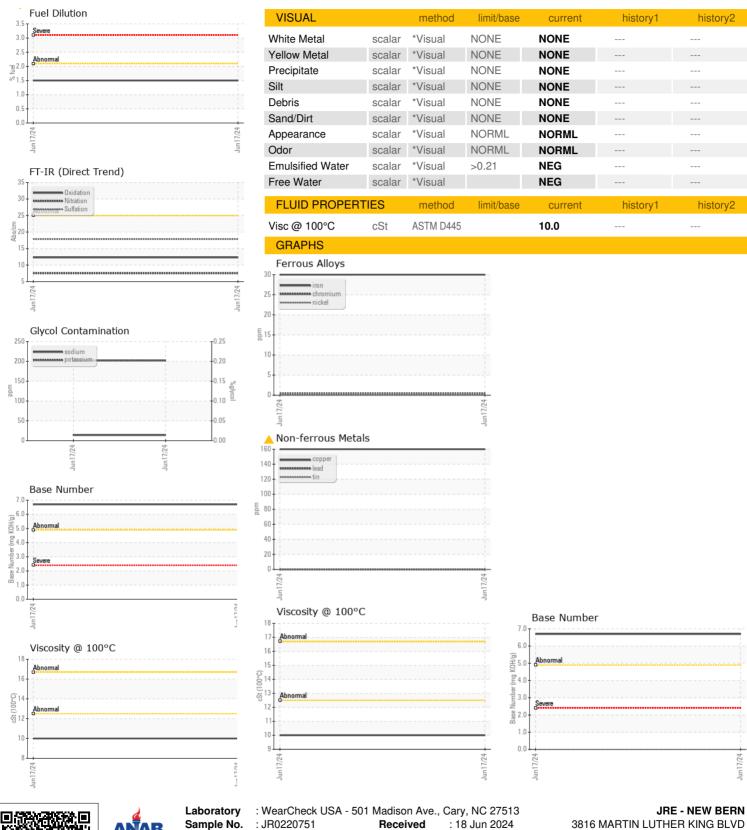
Fluid Condition

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

		,		Jun 2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Cample Number		Client Info		JR0220751		
Sample Number		Client Info		17 Jun 2024		
Sample Date	hro					
Machine Age	hrs	Client Info		532 532		
Oil Age	hrs					
Oil Changed		Client Info		Changed ABNORMAL		
Sample Status						
CONTAMINATION	V	method	limit/base	current	history1	history2
Water		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>51	30		
Chromium	ppm	ASTM D5185m	>11	<1		
Nickel	ppm	ASTM D5185m	>5	<1		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>31	4		
Lead	ppm	ASTM D5185m	>26	0		
Copper	ppm	ASTM D5185m	>26	<u> </u>		
Tin	ppm	ASTM D5185m	>4	<1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		180		
Boron Barium	ppm	ASTM D5185m ASTM D5185m		180 4		
	• •					
Barium Molybdenum	ppm	ASTM D5185m		4		
Barium Molybdenum Manganese	ppm ppm	ASTM D5185m ASTM D5185m		4 169		
Barium Molybdenum Manganese Magnesium	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		4 169 1		
Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		4 169 1 30		
Barium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		4 169 1 30 2299		
Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		4 169 1 30 2299 693		
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	4 169 1 30 2299 693 808		
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >22	4 169 1 30 2299 693 808 3376		
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		4 169 1 30 2299 693 808 3376	 history1	 history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	>22	4 169 1 30 2299 693 808 3376 current	 history1	 history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	>22 >31	4 169 1 30 2299 693 808 3376 current 43	 history1	history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	>22 >31 >20	4 169 1 30 2299 693 808 3376 current 43 14	 history1	history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	>22 >31 >20	4 169 1 30 2299 693 808 3376 current 43 14 202 1.5	history1	history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel Glycol	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	>22 >31 >20 >2.1	4 169 1 30 2299 693 808 3376 current 43 14 202 1.5 NEG	history1	history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel Glycol INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	>22 >31 >20 >2.1 limit/base	4 169 1 30 2299 693 808 3376 current 43 14 202 1.5 NEG	history1 history1	history2 history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel Glycol INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D3524 *ASTM D2982 method *ASTM D7844	>22 >31 >20 >2.1 limit/base >3	4 169 1 30 2299 693 808 3376 current 43 14 202 1.5 NEG current	history1 history1	history2 history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel Glycol INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m Method ASTM D5185m ASTM D7844 *ASTM D7844 *ASTM D7844	>22 >31 >20 >2.1 limit/base >3 >20	4 169 1 30 2299 693 808 3376 current 43 14 202 1.5 NEG current 0.3 7.5	history1 history1 history1	history2 history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel Glycol INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D3524 *ASTM D7844 *ASTM D7844 *ASTM D7624 *ASTM D76185m	>22 >31 >20 >2.1 limit/base >3 >20 >3	4 169 1 30 2299 693 808 3376 current 43 14 202 1.5 NEG current 0.3 7.5 17.8	history1 history1	history2 history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel Glycol INFRA-RED Soot % Nitration Sulfation FLUID DEGRADA	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m METHOD ASTM D5185m ASTM D7624 *ASTM D7624 *ASTM D7624 *ASTM D7615 METHOD	>22 >31 >20 >2.1 limit/base >3 >20 >30 limit/base	4 169 1 30 2299 693 808 3376 current 43 14 202 1.5 NEG current 0.3 7.5 17.8	history1 history1 history1 history1	history2 history2 history2 history2



OIL ANALYSIS REPORT







Certificate 12367

Sample No.

: JR0220751 Lab Number : 06213325 Unique Number : 11086189

Received **Tested**

Test Package : CONST (Additional Tests: FuelDilution, Glycol, PercentFuel, TBN)

: 20 Jun 2024 Diagnosed : 20 Jun 2024 - Sean Felton

NEW BERN, NC US 28562 Contact: NEW BERN SHOP nick.etherdridge@jamesriverequipment.com;canastasio@wearcheckusa.com

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