

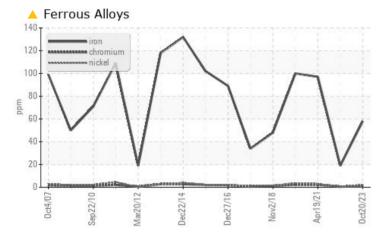
PROBLEM SUMMARY

Sample Rating Trend WEAR

Machine Id JOHN DEERE 648G 001075 (S/N X582855) Component Diesel Engine Fluid

CASTROL VECTON 15W40 CK4 (5 GAL)

COMPONENT CONDITION SUMMARY



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.

PROBLEMATIC TEST RESULTS							
Sample Status				ABNORMAL	NORMAL	ABNORMAL	
Iron	ppm	ASTM D5185m	>51	<u> </u>	19	<mark>▲</mark> 97	

Customer Id: CJMHAM Sample No.: WC0823937 Lab Number: 05997251 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data: Don Baldridge +1 <u>don.b505@comcast.net</u>

To change component or sample information: Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u>

RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description			
Change Fluid			?	Oil and filter change at the time of sampling has been noted.			
Change Filter			?	Oil and filter change at the time of sampling has been noted.			

HISTORICAL DIAGNOSIS



25 Aug 2021 Diag: Don Baldridge

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



view report

19 Apr 2021 Diag: Jonathan Hester



Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The iron level is abnormal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

10 Aug 2020 Diag: Jonathan Hester



Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The iron level is abnormal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.





Report Id: CJMHAM [WUSCAR] 05997251 (Generated: 11/05/2023 09:27:47) Rev: 1



OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id JOHN DEERE 648G 001075 (S/N X582855) Component Diesel Engine Fluid





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.

🔺 Wear

The iron level is abnormal. All other component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

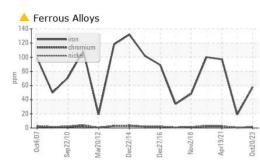
Fluid Condition

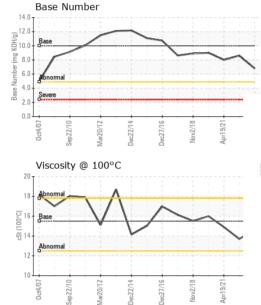
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sample Number		Client Info		WC0823937	WC0604454	WC0497770
Sample Date		Client Info		20 Oct 2023	25 Aug 2021	19 Apr 2021
Machine Age	hrs	Client Info		10971	10468	9930
Oil Age	hrs	Client Info		503	500	500
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	ABNORMAL
CONTAMINATION	N	method	limit/base	current	history1	history2
Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>51	<mark>/</mark> 58	19	9 7
Chromium	ppm	ASTM D5185m	>11	<1	<1	2
Nickel	ppm	ASTM D5185m	>5	2	<1	3
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>31	5	<1	2
Lead	ppm	ASTM D5185m	>26	22	2	10
Copper	ppm	ASTM D5185m	>26	2	2	10
Tin	ppm	ASTM D5185m	>4	1	<1	2
Antimony	ppm	ASTM D5185m			0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185m	limit/base	current 39	history1 119	history2 83
	ppm ppm		limit/base			
Boron		ASTM D5185m	limit/base	39	119	83 0 69
Boron Barium Molybdenum Manganese	ppm	ASTM D5185m ASTM D5185m	limit/base	39 0	119 0	83 0
Boron Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	39 0 87	119 0 62	83 0 69
Boron Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	39 0 87 <1	119 0 62 <1	83 0 69 1
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	39 0 87 <1 197	119 0 62 <1 353 1795 990	83 0 69 1 467 1819 974
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	39 0 87 <1 197 2052	119 0 62 <1 353 1795	83 0 69 1 467 1819
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	39 0 87 <1 197 2052 1025	119 0 62 <1 353 1795 990	83 0 69 1 467 1819 974
Boron 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	39 0 87 <1 197 2052 1025 1275	119 0 62 <1 353 1795 990 1083	83 0 69 1 467 1819 974 1212
Boron 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	limit/base	39 0 87 <1 197 2052 1025 1275 3270	119 0 62 <1 353 1795 990 1083 2848	83 0 69 1 467 1819 974 1212 2436
Boron 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	limit/base	39 0 87 <1 197 2052 1025 1275 3270 current	119 0 62 <1 353 1795 990 1083 2848 history1	83 0 69 1 467 1819 974 1212 2436 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	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 method ASTM D5185m	limit/base	39 0 87 <1 197 2052 1025 1275 3270 current 7	119 0 62 <1 353 1795 990 1083 2848 history1 4	83 0 69 1 467 1819 974 1212 2436 history2 5
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	limit/base >22 >31	39 0 87 <1 197 2052 1025 1275 3270 current 7 2	119 0 62 <1 353 1795 990 1083 2848 history1 4 <1	83 0 69 1 467 1819 974 1212 2436 history2 5 3
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	limit/base >22 >31 >20	39 0 87 <1 197 2052 1025 1275 3270 current 7 2 0	119 0 62 <1 353 1795 990 1083 2848 history1 4 <1 <1	83 0 69 1 467 1819 974 1212 2436 history2 5 3 3 <1
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	limit/base >22 >31 >20 limit/base	39 0 87 <1 197 2052 1025 1275 3270 current 7 2 0 0	119 0 62 <1 353 1795 990 1083 2848 history1 4 <1 <1 <1 history1	83 0 69 1 467 1819 974 1212 2436 history2 5 3 <1 }
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	limit/base >22 >31 >20 limit/base >3	39 0 87 <1 197 2052 1025 1275 3270 current 7 2 0 current 1.2	119 0 62 <1 353 1795 990 1083 2848 history1 4 <1 <1 <1 0.4	83 0 69 1 467 1819 974 1212 2436 history2 5 3 <1 history2 1.4
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	limit/base >22 >31 >20 limit/base >3 >20	39 0 87 <1 197 2052 1025 1275 3270 current 7 2 0 current 1.2 1.2 11.0	119 0 62 <1 353 1795 990 1083 2848 history1 4 <1 <1 <1 history1 0.4 6.5	83 0 69 1 467 1819 974 1212 2436 history2 5 3 <1 5 3 <1 history2 1.4
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	limit/base >22 >31 >20 limit/base >3 >20 >30	39 0 87 <1 197 2052 1025 1275 3270 current 7 2 0 current 1.2 1.2 11.0 23.2	119 0 62 <1 353 1795 990 1083 2848 history1 4 <1 <1 <1 0.4 6.5 18.9	83 0 69 1 467 1819 974 1212 2436 history2 5 3 <1 5 3 <1 history2 1.4 1.4 11.2 25.8



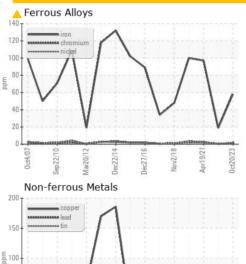
OIL ANALYSIS REPORT

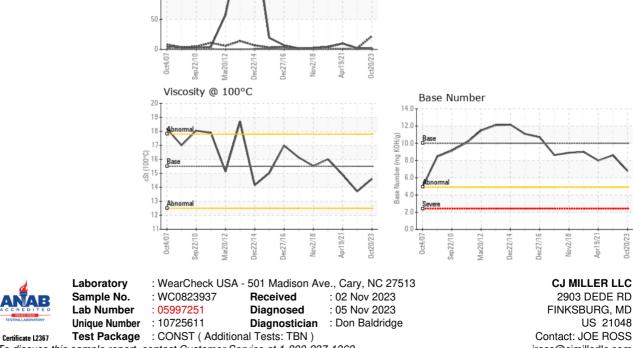




Aar20/12

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.5	14.6	13.7	14.9
GRAPHS						





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