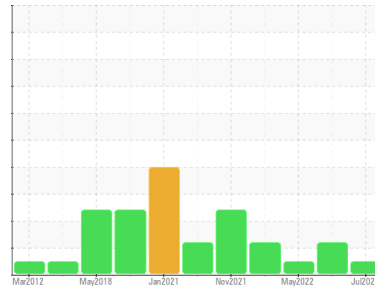




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
JOHN DEERE 6430

Component
Diesel Engine

Fluid
CHEVRON URSA SUPER PLUS EC 15W40 (17 QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

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 INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		KL0007953	KL0007969	KL0006458
Sample Date	Client Info		09 Jul 2023	14 Mar 2023	17 May 2022
Machine Age	hrs	Client Info	3710	3614	3336
Oil Age	hrs	Client Info	474	378	100
Oil Changed	Client Info		Not Chngd	Not Chngd	Not Chngd
Sample Status			NORMAL	ATTENTION	NORMAL

CONTAMINATION

	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	14	13	6
Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	0	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>31	2	1	2
Lead	ppm	ASTM D5185m	>26	<1	<1	1
Copper	ppm	ASTM D5185m	>26	1	<1	<1
Tin	ppm	ASTM D5185m	>4	0	0	1
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		0	0	<1

ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		176	200	277
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		207	212	230
Manganese	ppm	ASTM D5185m		<1	1	<1
Magnesium	ppm	ASTM D5185m		925	868	792
Calcium	ppm	ASTM D5185m		1404	1414	1445
Phosphorus	ppm	ASTM D5185m	1200	952	898	907
Zinc	ppm	ASTM D5185m	1300	1182	1134	1035
Sulfur	ppm	ASTM D5185m		4116	3434	2784

CONTAMINANTS

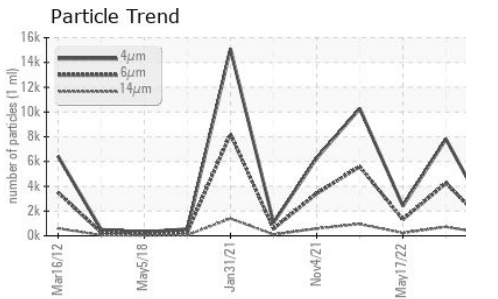
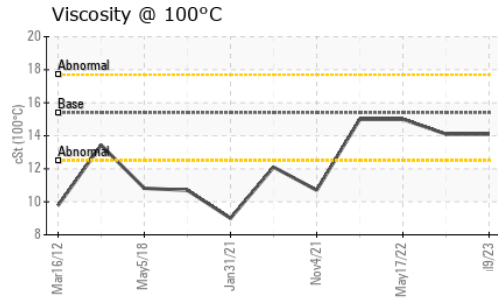
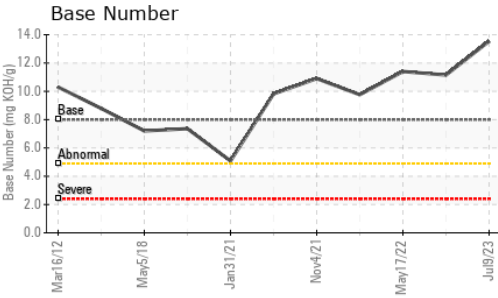
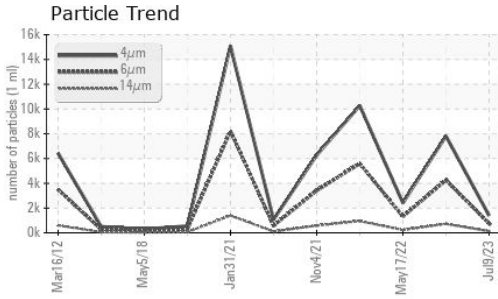
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>22	5	6	6
Sodium	ppm	ASTM D5185m	>31	1	<1	<1
Potassium	ppm	ASTM D5185m	>20	<1	<1	<1

INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.3	0.3	0.1
Nitration	Abs/cm	*ASTM D7624	>20	8.3	8.2	7.5
Sulfation	Abs./1mm	*ASTM D7415	>30	21.5	20.7	21.7



OIL ANALYSIS REPORT



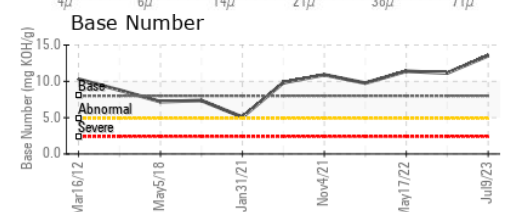
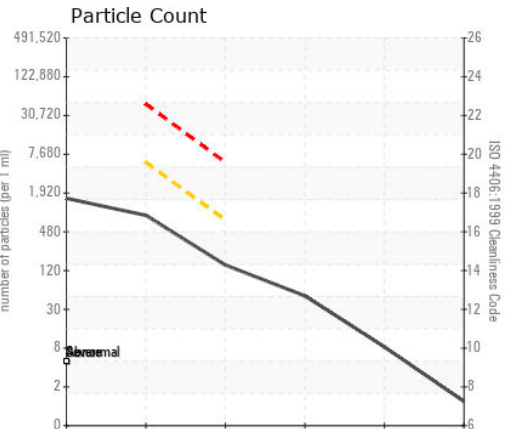
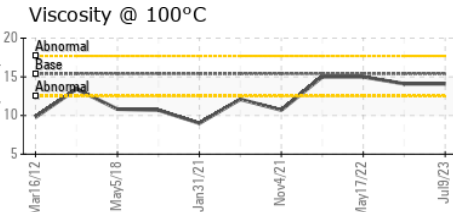
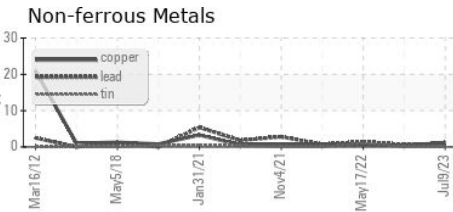
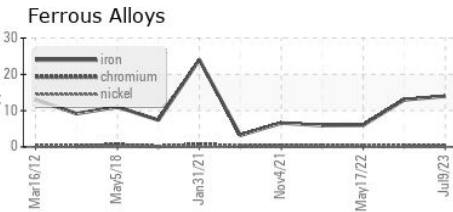
FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		1392	7812	2414
Particles >6µm	ASTM D7647	>5000	758	4256	1315
Particles >14µm	ASTM D7647	>640	129	▲ 724	224
Particles >21µm	ASTM D7647	>160	43	▲ 244	75
Particles >38µm	ASTM D7647	>40	7	38	12
Particles >71µm	ASTM D7647	>10	1	4	1
Oil Cleanliness	ISO 4406 (c)	>19/16	17/14	▲ 19/17	18/15

FLUID DEGRADATION	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.7	15.8	16.9
Base Number (BN)	mg KOH/g	ASTM D2896	8.0	13.54	11.15	11.4

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 PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	15.4	14.1	14.1	15.0

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : KL0007953
 Lab Number : **05900158**
 Unique Number : 10561514
 Test Package : MOB 2 (Additional Tests: PrtCount)

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 US 89447
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 scatena1@msn.com
 T: 7(754)637-0001
 F: (775)463-7412

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)