



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area

PCS

Machine Id

JOHN DEERE 744J LD08 - PCS

Component

Diesel Engine

Fluid

CHEVRON DELO 400 SDE SAE 15W40 (40 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KL0013773	KL0013054	KL0009664
Sample Date		Client Info		10 Apr 2024	03 Oct 2023	29 Jun 2023
Machine Age	hrs	Client Info		9703	9326	9004
Oil Age	hrs	Client Info		377	538	216
Filter Age	hrs	Client Info		377	538	216
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Filter Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	12	7	6
Chromium	ppm	ASTM D5185m	>11	<1	<1	0
Nickel	ppm	ASTM D5185m	>5	<1	1	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>31	3	0	<1
Lead	ppm	ASTM D5185m	>26	1	4	1
Copper	ppm	ASTM D5185m	>26	5	1	1
Tin	ppm	ASTM D5185m	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	LIGHT	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

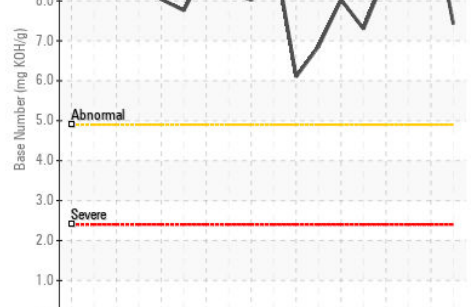
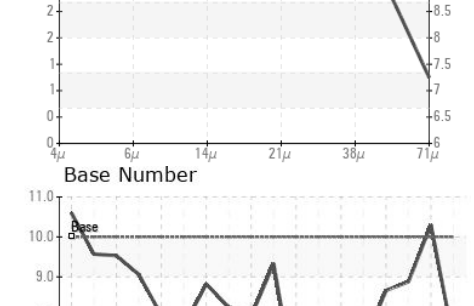
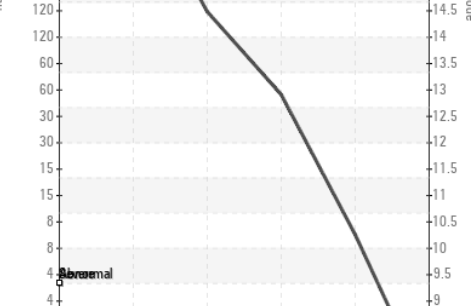
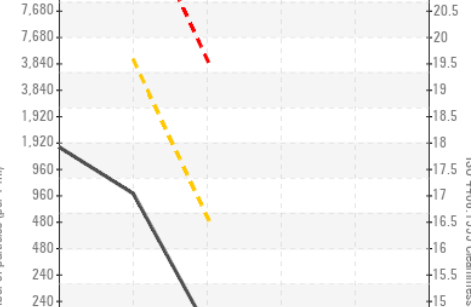
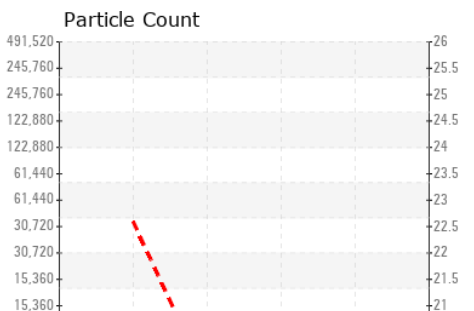
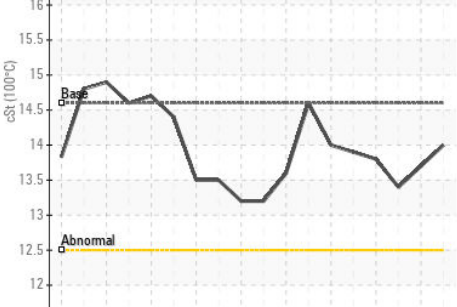
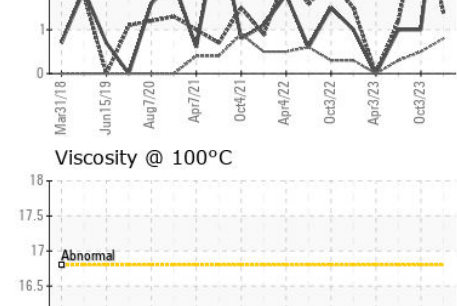
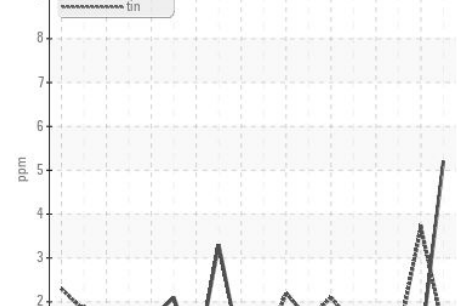
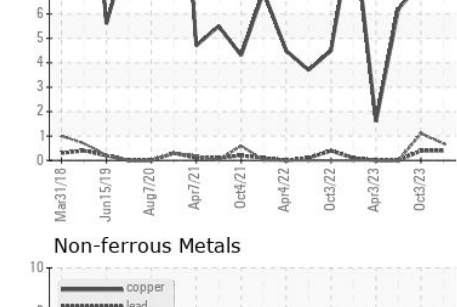
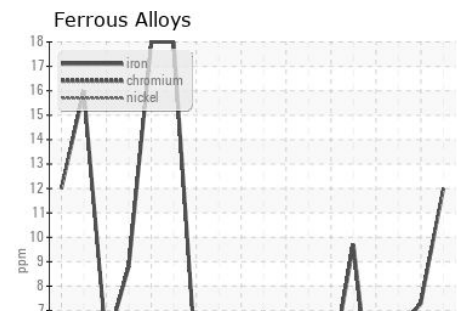
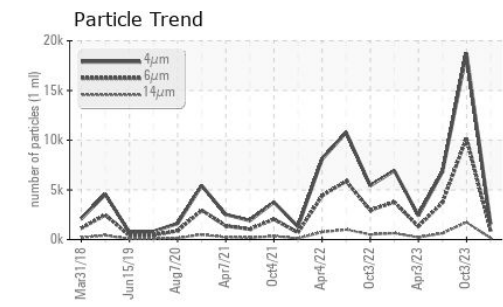
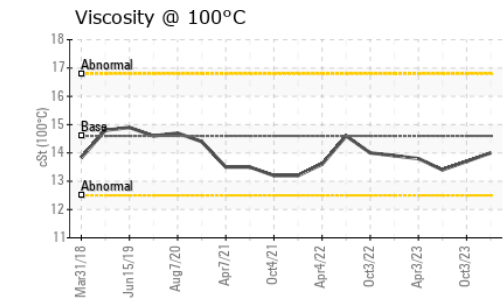
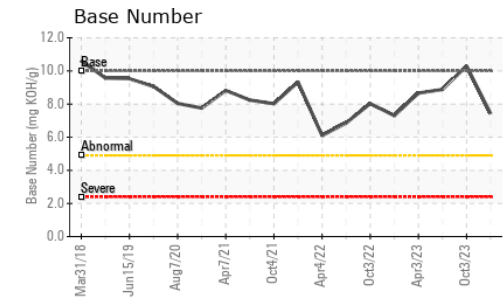
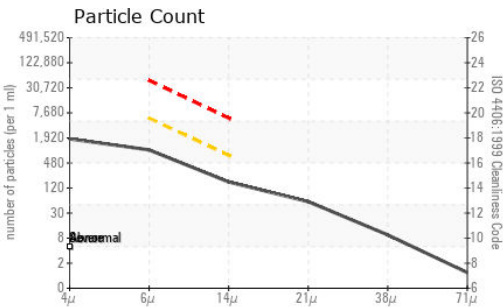
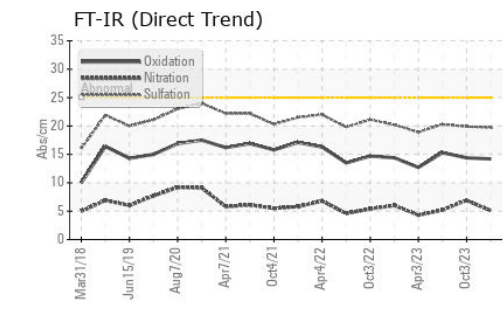
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185m	>22	6	5	5
Potassium	ppm	ASTM D5185m	>20	1	2	1
Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.2	0.6	0.3
Nitration	Abs/cm	*ASTM D7624	>20	5.1	6.9	5.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.7	19.9	20.3
Particles >4µm		ASTM D7647		1592	18730	6820
Particles >6µm		ASTM D7647	>5000	867	▲ 10203	3715
Particles >14µm		ASTM D7647	>640	148	▲ 1737	632
Particles >21µm		ASTM D7647	>160	50	▲ 585	213
Particles >38µm		ASTM D7647	>40	8	▲ 90	33
Particles >71µm		ASTM D7647	>10	1	9	3
Oil Cleanliness		ISO 4406 (c)	>19/16	17/14	▲ 21/18	19/16
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

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.

Sodium	ppm	ASTM D5185m	>31	4	0	0
Boron	ppm	ASTM D5185m		485	227	435
Barium	ppm	ASTM D5185m		1	0	2
Molybdenum	ppm	ASTM D5185m		94	100	99
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		371	252	359
Calcium	ppm	ASTM D5185m		1554	1695	1444
Phosphorus	ppm	ASTM D5185m	760	1136	1005	977
Zinc	ppm	ASTM D5185m	800	1290	1241	1151
Sulfur	ppm	ASTM D5185m	3000	4040	4081	4042
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.2	14.4	15.3
Base Number (BN)	mg KOH/g	ASTM D2896	10	7.42	10.30	8.88
Visc @ 100°C	cSt	ASTM D445	14.6	14.0	13.7	13.4



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0013773 **Received** : 16 Apr 2024
Lab Number : 06150603 **Tested** : 17 Apr 2024
Unique Number : 10980681 **Diagnosed** : 18 Apr 2024 - Sean Felton
Test Package : MOB 2 (Additional Tests: PrtCount)

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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)