



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Area
PCS - PORTABLE CRUSHING SERVICES
Machine Id
JOHN DEERE 300G LC TH03 - PCS
Component
Diesel Engine
Fluid
CHEVRON DELO 400 SDE SAE 15W40 (7 GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KL0013954	KL0009680	KL0009529
Sample Date		Client Info		09 Jan 2024	29 Jun 2023	03 Apr 2023
Machine Age	hrs	Client Info		7864	7361	7066
Oil Age	hrs	Client Info		50	649	354
Filter Age	hrs	Client Info		50	649	354
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		Changed	Not Changd	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL

WEAR

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

Iron	ppm	ASTM D5185m	>51	▲ 53	28	7
Chromium	ppm	ASTM D5185m	>11	3	2	0
Nickel	ppm	ASTM D5185m	>5	6	6	2
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>31	5	3	2
Lead	ppm	ASTM D5185m	>26	5	<1	0
Copper	ppm	ASTM D5185m	>26	6	6	2
Tin	ppm	ASTM D5185m	>4	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

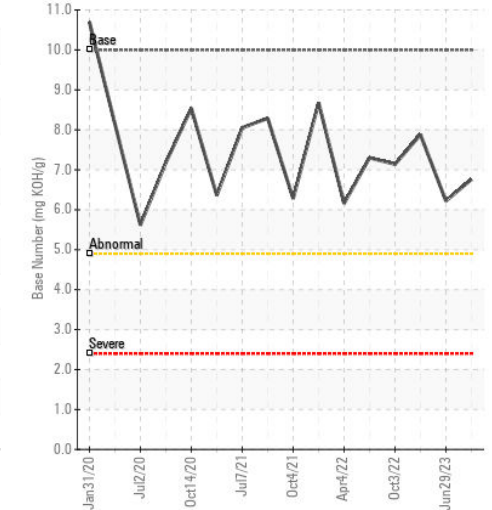
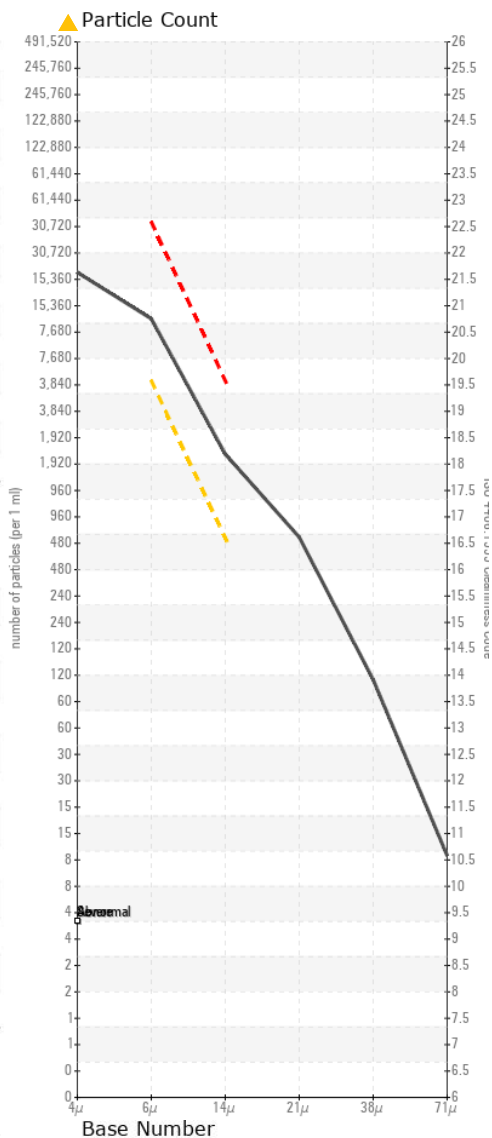
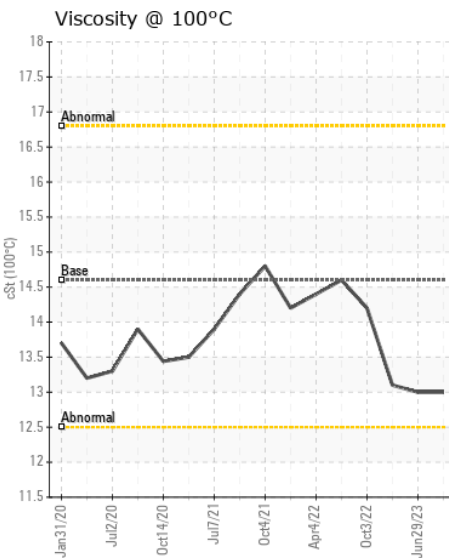
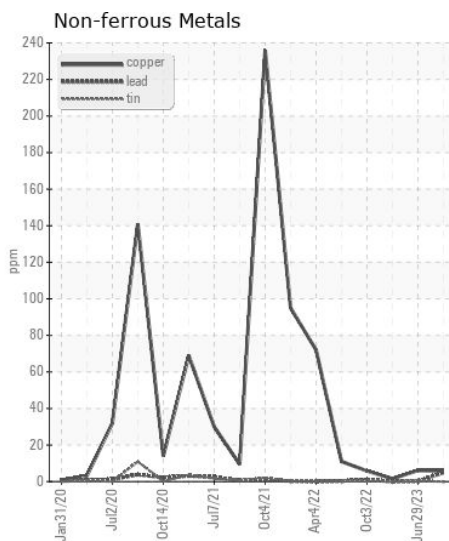
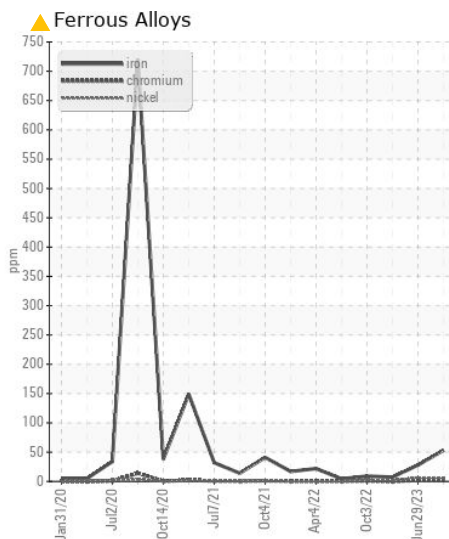
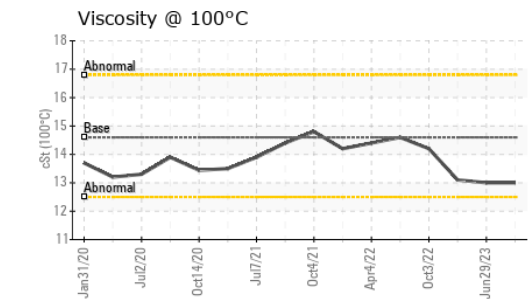
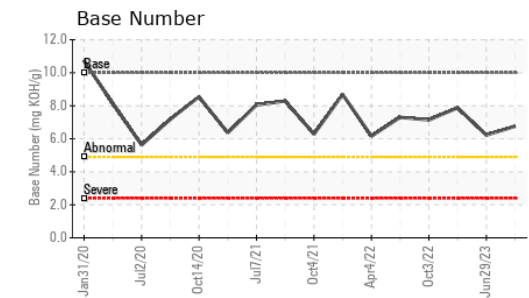
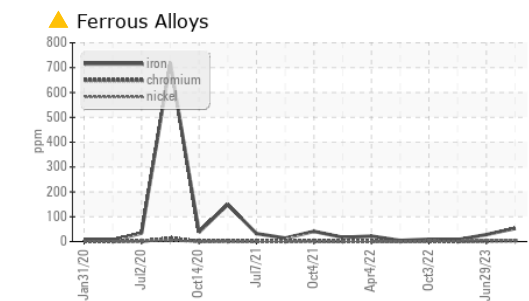
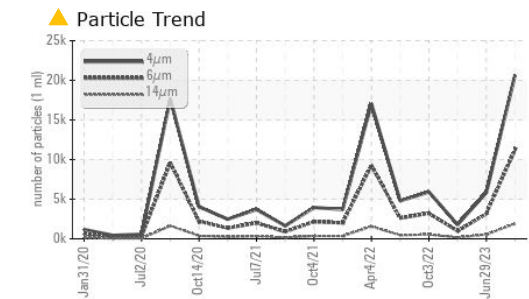
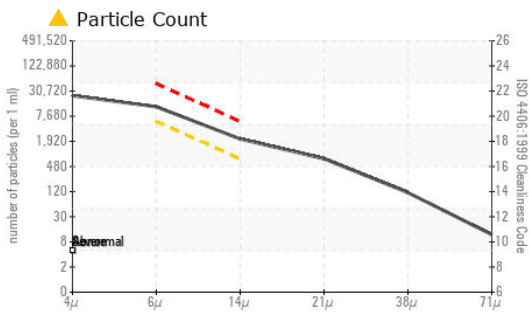
There is a high amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>22	15	14	7
Potassium	ppm	ASTM D5185m	>20	0	2	0
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	1.3	0.8	0.4
Nitration	Abs/cm	*ASTM D7624	>20	9.5	7.2	6.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.7	23.3	20.7
Particles >4µm		ASTM D7647		20644	5829	1784
Particles >6µm		ASTM D7647	>5000	▲ 11246	3175	972
Particles >14µm		ASTM D7647	>640	▲ 1914	540	165
Particles >21µm		ASTM D7647	>160	▲ 645	182	56
Particles >38µm		ASTM D7647	>40	▲ 100	28	9
Particles >71µm		ASTM D7647	>10	10	3	1
Oil Cleanliness		ISO 4406 (c)	>19/16	▲ 21/18	19/16	17/15
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	3	5	2
Boron	ppm	ASTM D5185m		88	215	352
Barium	ppm	ASTM D5185m		0	2	0
Molybdenum	ppm	ASTM D5185m		79	97	92
Manganese	ppm	ASTM D5185m		2	1	<1
Magnesium	ppm	ASTM D5185m		288	347	344
Calcium	ppm	ASTM D5185m		1429	1453	1418
Phosphorus	ppm	ASTM D5185m	760	893	942	902
Zinc	ppm	ASTM D5185m	800	1096	1108	1084
Sulfur	ppm	ASTM D5185m	3000	3233	4000	3880
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.3	18.5	14.8
Base Number (BN)	mg KOH/g	ASTM D2896	10	6.76	6.22	7.88
Visc @ 100°C	cSt	ASTM D445	14.6	13.0	13.0	13.1



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0013954 **Received** : 16 Jan 2024
Lab Number : 06061358 **Diagnosed** : 18 Jan 2024
Unique Number : 10832740 **Diagnostician** : Jonathan Hester
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)