



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
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

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KL0013779	KL0013954	KL0009680
Sample Date		Client Info		10 Apr 2024	09 Jan 2024	29 Jun 2023
Machine Age	hrs	Client Info		8024	7864	7361
Oil Age	hrs	Client Info		210	50	649
Filter Age	hrs	Client Info		210	50	649
Oil Changed		Client Info		Not Chngd	Changed	Not Chngd
Filter Changed		Client Info		Not Chngd	Changed	Not Chngd
Sample Status				ATTENTION	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	16	▲ 53	28
Chromium	ppm	ASTM D5185m	>11	<1	3	2
Nickel	ppm	ASTM D5185m	>5	2	6	6
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>31	3	5	3
Lead	ppm	ASTM D5185m	>26	1	5	<1
Copper	ppm	ASTM D5185m	>26	4	6	6
Tin	ppm	ASTM D5185m	>4	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

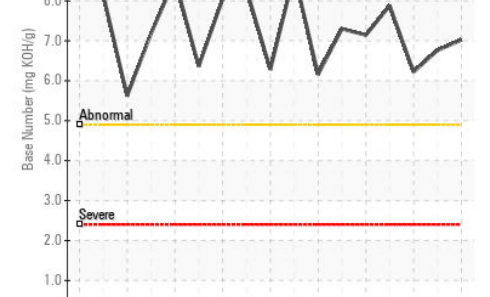
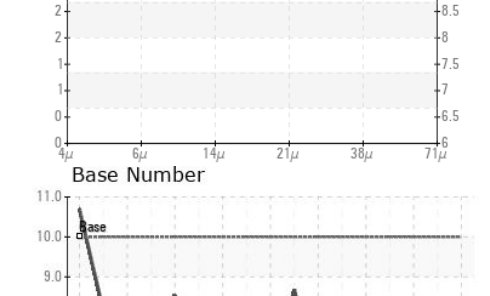
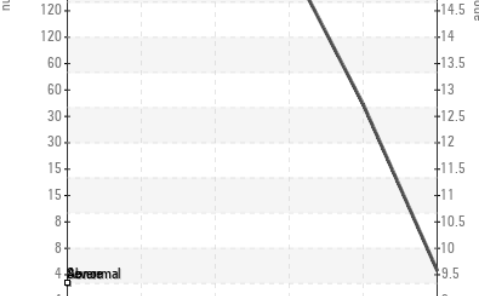
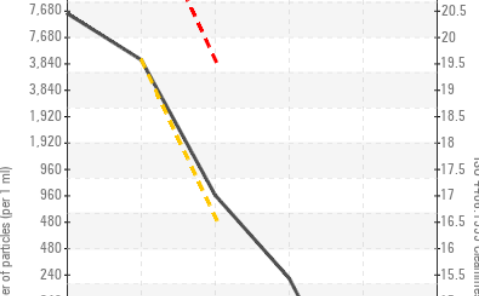
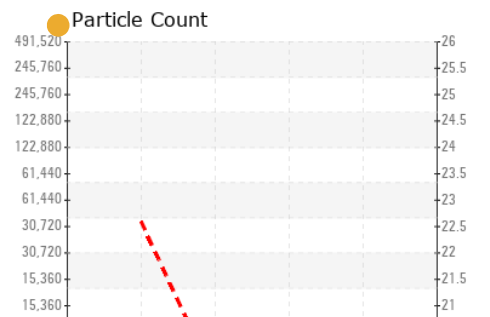
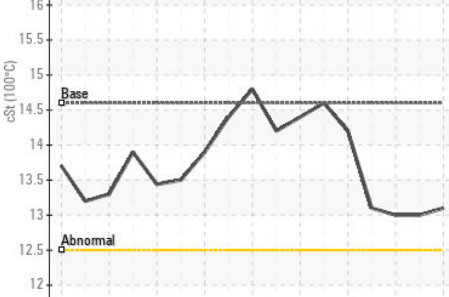
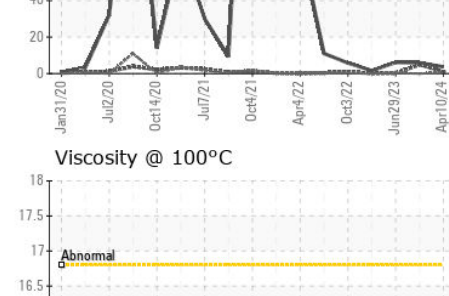
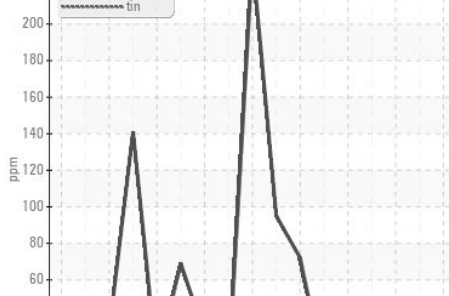
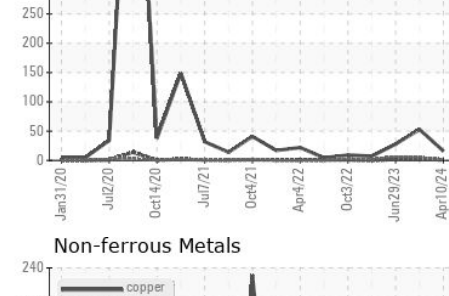
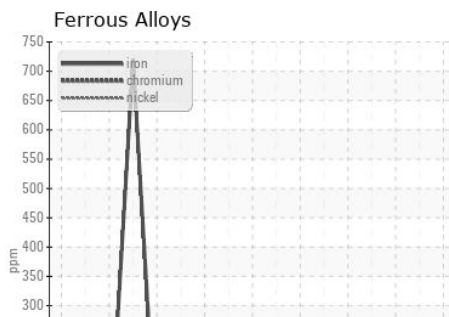
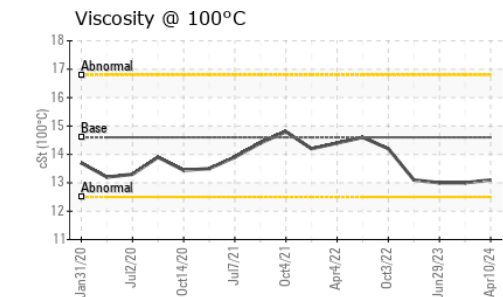
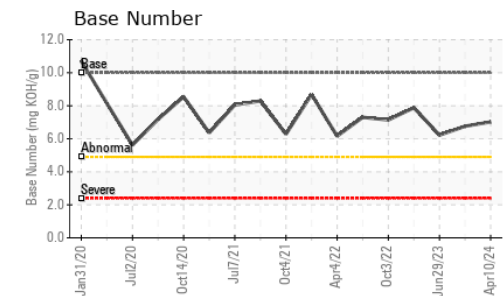
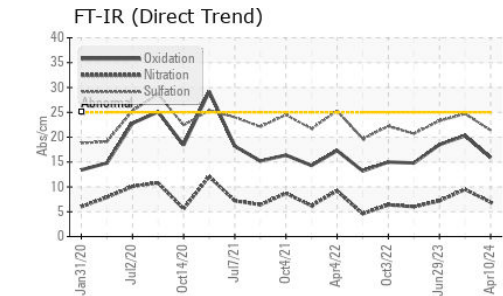
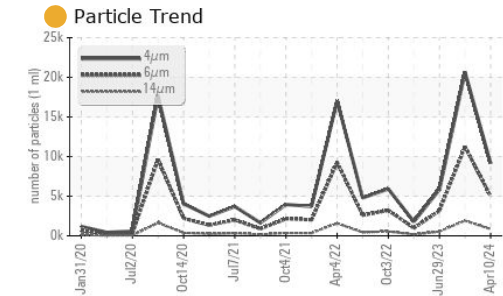
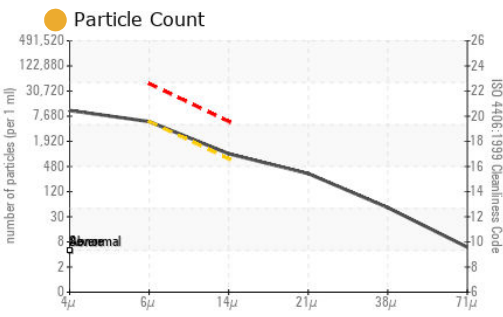
There is a light amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>22	6	15	14
Potassium	ppm	ASTM D5185m	>20	2	0	2
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	0.5	1.3	0.8
Nitration	Abs/cm	*ASTM D7624	>20	6.9	9.5	7.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.4	24.7	23.3
Particles >4µm		ASTM D7647		9152	20644	5829
Particles >6µm		ASTM D7647	>5000	4986	▲ 11246	3175
Particles >14µm		ASTM D7647	>640	● 848	▲ 1914	540
Particles >21µm		ASTM D7647	>160	● 286	▲ 645	182
Particles >38µm		ASTM D7647	>40	44	▲ 100	28
Particles >71µm		ASTM D7647	>10	5	10	3
Oil Cleanliness		ISO 4406 (c)	>19/16	● 19/17	▲ 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	3	5
Boron	ppm	ASTM D5185m		319	88	215
Barium	ppm	ASTM D5185m		0	0	2
Molybdenum	ppm	ASTM D5185m		75	79	97
Manganese	ppm	ASTM D5185m		2	2	1
Magnesium	ppm	ASTM D5185m		398	288	347
Calcium	ppm	ASTM D5185m		1567	1429	1453
Phosphorus	ppm	ASTM D5185m	760	986	893	942
Zinc	ppm	ASTM D5185m	800	1159	1096	1108
Sulfur	ppm	ASTM D5185m	3000	4517	3233	4000
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.9	20.3	18.5
Base Number (BN)	mg KOH/g	ASTM D2896	10	7.02	6.76	6.22
Visc @ 100°C	cSt	ASTM D445	14.6	13.1	13.0	13.0



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0013779 **Received** : 16 Apr 2024
Lab Number : 06150593 **Tested** : 17 Apr 2024
Unique Number : 10980671 **Diagnosed** : 17 Apr 2024 - Wes Davis
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)