MOB II WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
PCS - PORTABLE CRUSHING SERVICES
Machine Id
LD07 BOBCAT LD07 - PCS
Component
Diesel Engine
Fluid
CHEVRON DELO 400 SDE SAE 15W40 (12 QTS)

RECOMMENDATION

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

WEAR

All component wear rates are normal.

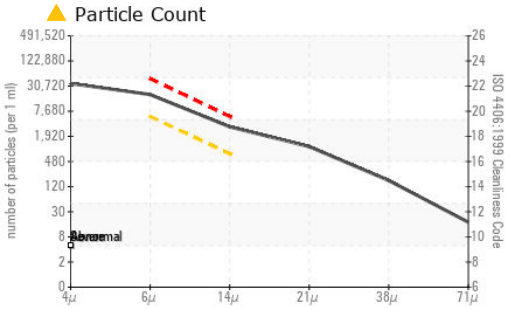
CONTAMINATION

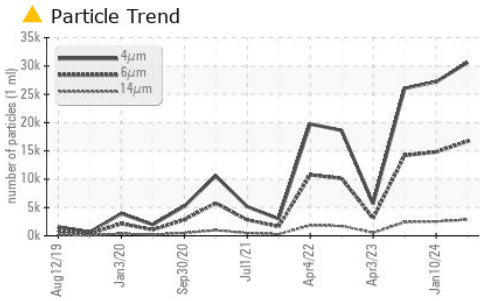
There is a moderate amount of particulates (2 to 100 microns in size) present in the oil.

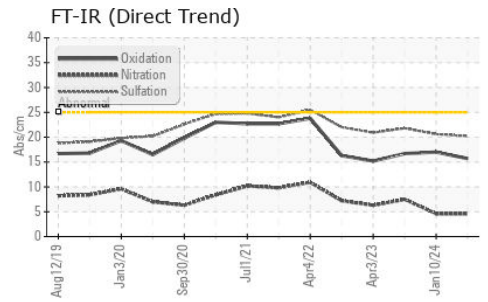
FLUID CONDITION

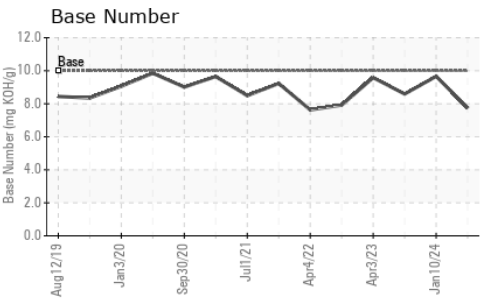
The BN result indicates that there is suitable alkalinity remaining in the oil.

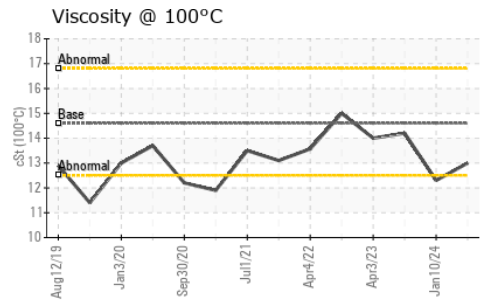
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KL0013772	KL0014089	KL0013053
Sample Date		Client Info		10 Apr 2024	10 Jan 2024	03 Oct 2023
Machine Age	hrs	Client Info		6314	6306	6238
Oil Age	hrs	Client Info		58	50	515
Filter Age	hrs	Client Info		58	50	515
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Filter Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>100	16	10	32
Chromium	ppm	ASTM D5185m	>20	<1	<1	1
Nickel	ppm	ASTM D5185m	>4	<1	0	1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	4	2	0
Lead	ppm	ASTM D5185m	>40	<1	0	<1
Copper	ppm	ASTM D5185m	>330	<1	1	<1
Tin	ppm	ASTM D5185m	>15	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	10	8	12
Potassium	ppm	ASTM D5185m	>20	1	0	3
Fuel		WC Method	>5	<1.0	0.4	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.7
Nitration	Abs/cm	*ASTM D7624	>20	4.6	4.6	7.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.2	20.6	21.8
Particles >4µm		ASTM D7647		30632	27195	26055
Particles >6µm		ASTM D7647	>5000	▲ 16687	▲ 14815	▲ 14194
Particles >14µm		ASTM D7647	>640	▲ 2840	▲ 2521	▲ 2416
Particles >21µm		ASTM D7647	>160	▲ 957	▲ 849	▲ 814
Particles >38µm		ASTM D7647	>40	▲ 148	▲ 131	▲ 126
Particles >71µm		ASTM D7647	>10	15	13	13
Oil Cleanliness		ISO 4406 (c)	>19/16	▲ 21/19	▲ 21/19	▲ 21/18
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	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m		3	0	0
Boron	ppm	ASTM D5185m		352	196	345
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		71	56	81
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		425	438	326
Calcium	ppm	ASTM D5185m		1522	1462	1558
Phosphorus	ppm	ASTM D5185m	760	1019	838	982
Zinc	ppm	ASTM D5185m	800	1150	1015	1216
Sulfur	ppm	ASTM D5185m	3000	3630	2836	4144
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.7	17.0	16.7
Base Number (BN)	mg KOH/g	ASTM D2896	10	7.74	9.66	8.59
Visc @ 100°C	cSt	ASTM D445	14.6	13.0	12.3	14.2

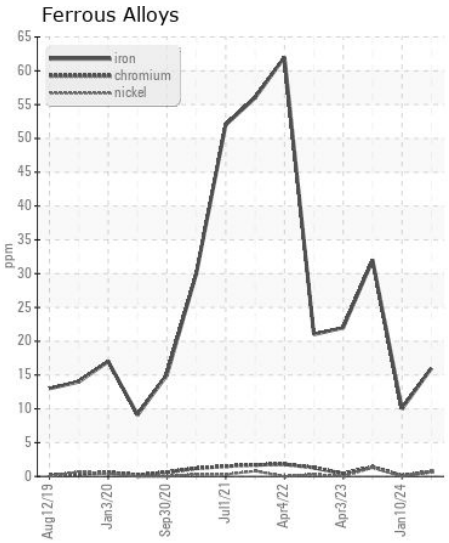


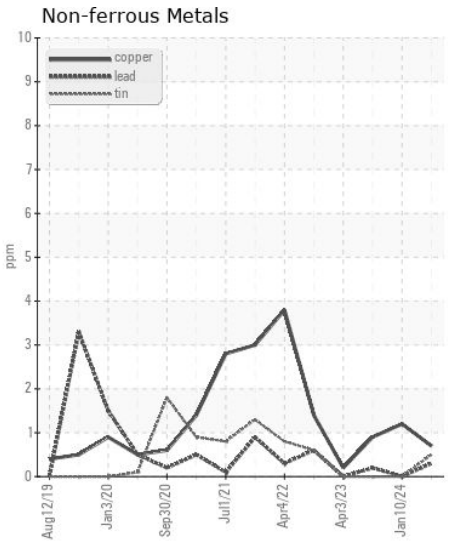


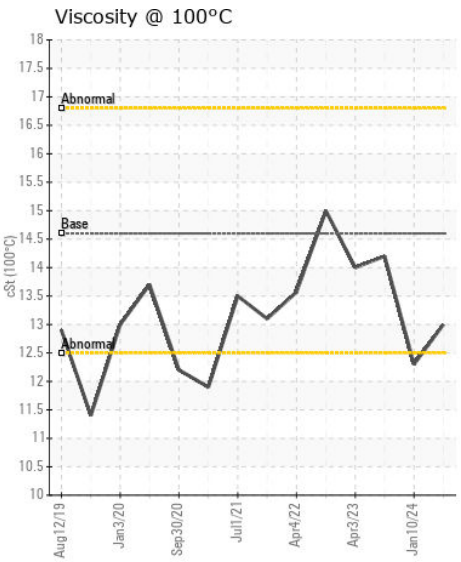


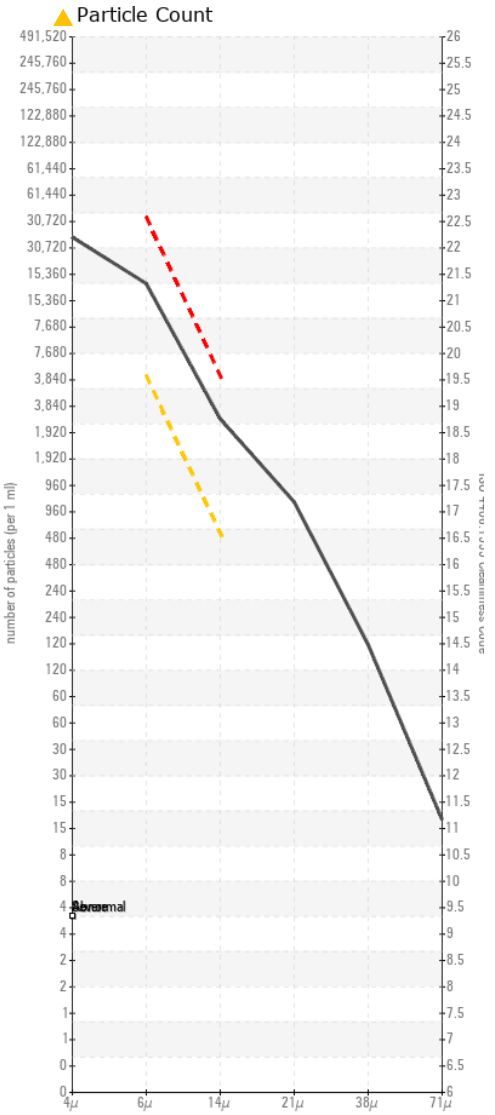


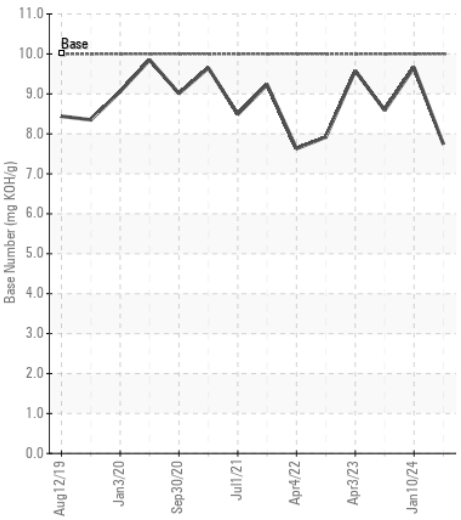












Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0013772
Lab Number : 06150604
Unique Number : 10980682
Test Package : MOB 2 (Additional Tests: PrtCount)

Received : 16 Apr 2024
Tested : 17 Apr 2024
Diagnosed : 18 Apr 2024 - Sean Felton

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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)