MOB II WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
PCS - PORTABLE CRUSHING SERVICES
Machine Id
CASE SKIDSTEER LD18 - PCS
Component
Diesel Engine
Fluid
CHEVRON DELO 400 SDE SAE 15W40 (--- QTS)

RECOMMENDATION

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

WEAR

All component wear rates are normal.

CONTAMINATION

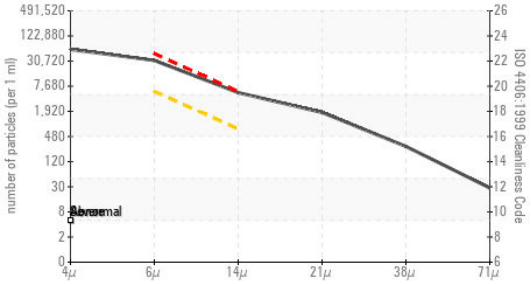
There is a high amount of particulates present in the oil.

FLUID CONDITION

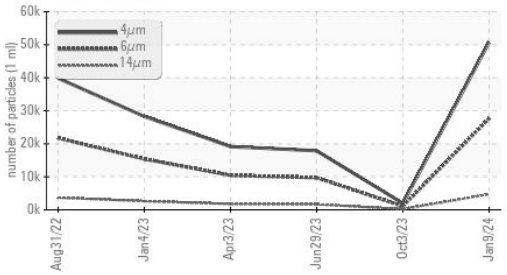
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KL0013963	KL0013076	KL0009674
Sample Date		Client Info		09 Jan 2024	03 Oct 2023	29 Jun 2023
Machine Age	hrs	Client Info		2080	1682	1434
Oil Age	hrs	Client Info		50	733	485
Filter Age	hrs	Client Info		50	733	485
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Filter Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				ABNORMAL	NORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>100	14	28	14
Chromium	ppm	ASTM D5185m	>20	<1	2	<1
Nickel	ppm	ASTM D5185m	>4	0	1	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	7	6	6
Lead	ppm	ASTM D5185m	>40	<1	2	<1
Copper	ppm	ASTM D5185m	>330	2	2	1
Tin	ppm	ASTM D5185m	>15	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
Silicon	ppm	ASTM D5185m	>25	7	10	8
Potassium	ppm	ASTM D5185m	>20	<1	2	2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.1	0.3	0.2
Nitration	Abs/cm	*ASTM D7624	>20	10.2	15.5	9.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.1	33.2	23.0
Particles >4µm		ASTM D7647		50684	1958	17878
Particles >6µm		ASTM D7647	>5000	▲ 27611	1066	▲ 9739
Particles >14µm		ASTM D7647	>640	▲ 4699	181	▲ 1657
Particles >21µm		ASTM D7647	>160	▲ 1583	61	▲ 558
Particles >38µm		ASTM D7647	>40	▲ 244	9	▲ 86
Particles >71µm		ASTM D7647	>10	▲ 25	1	9
Oil Cleanliness		ISO 4406 (c)	>19/16	▲ 22/19	17/15	▲ 20/18
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		0	0	0
Boron	ppm	ASTM D5185m		277	282	403
Barium	ppm	ASTM D5185m		0	0	2
Molybdenum	ppm	ASTM D5185m		68	85	104
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		392	393	509
Calcium	ppm	ASTM D5185m		1468	1508	1842
Phosphorus	ppm	ASTM D5185m	760	907	914	1207
Zinc	ppm	ASTM D5185m	800	1116	1177	1414
Sulfur	ppm	ASTM D5185m	3000	3384	4401	6002
Oxidation	Abs/.1mm	*ASTM D7414	>25	27.4	47.4	22.7
Base Number (BN)	mg KOH/g	ASTM D2896	10	9.55	7.96	9.29
Visc @ 100°C	cSt	ASTM D445	14.6	14.0	14.7	13.3

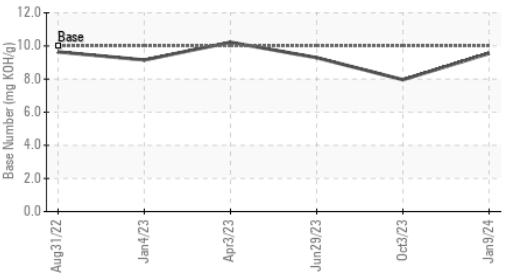
Particle Count



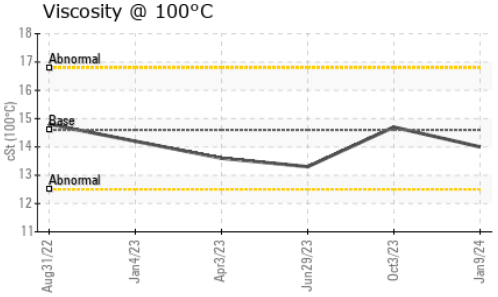
Particle Trend



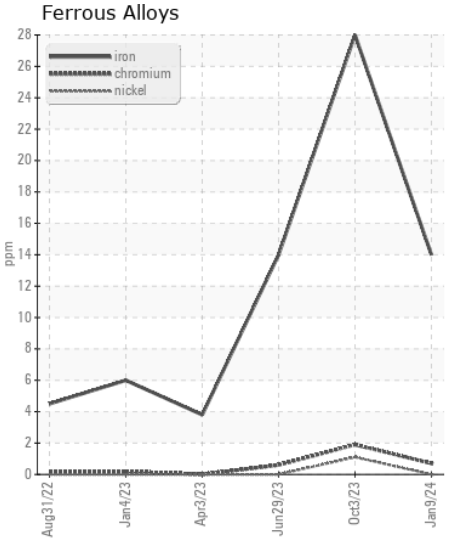
Base Number



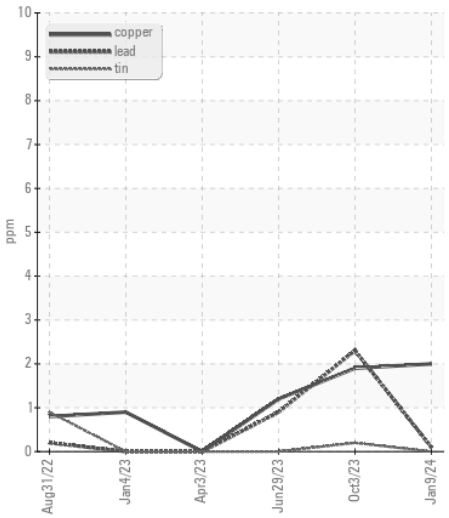
Viscosity @ 100°C



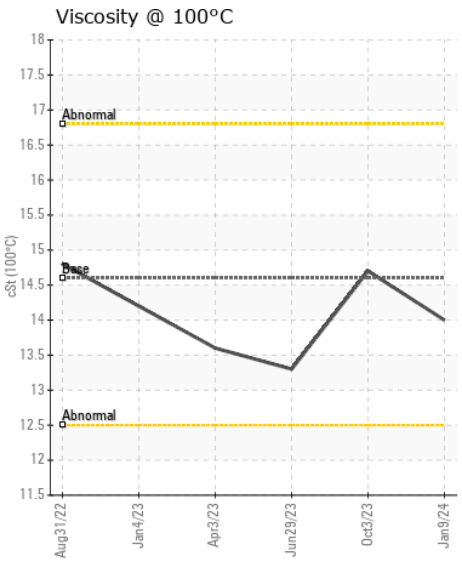
Ferrous Alloys



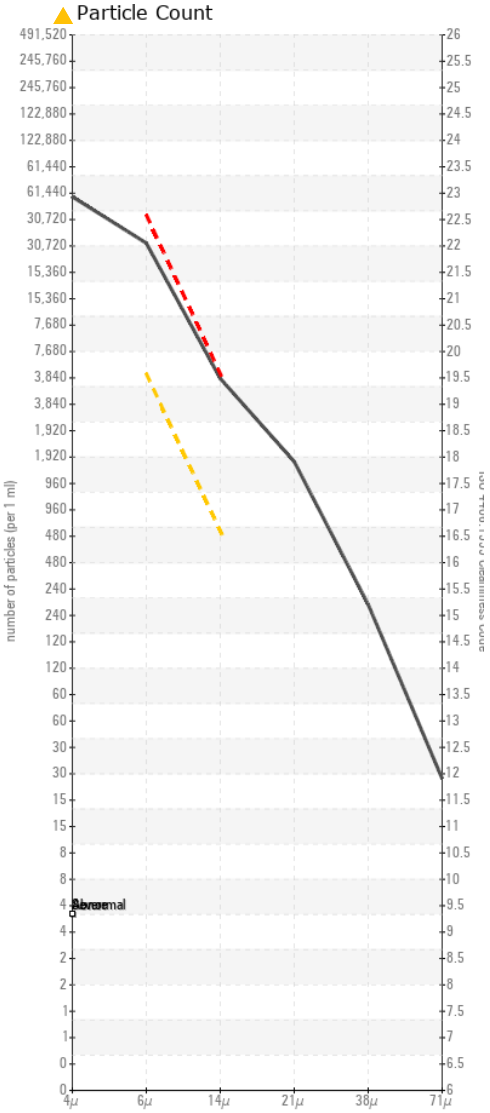
Non-ferrous Metals



Viscosity @ 100°C



Particle Count



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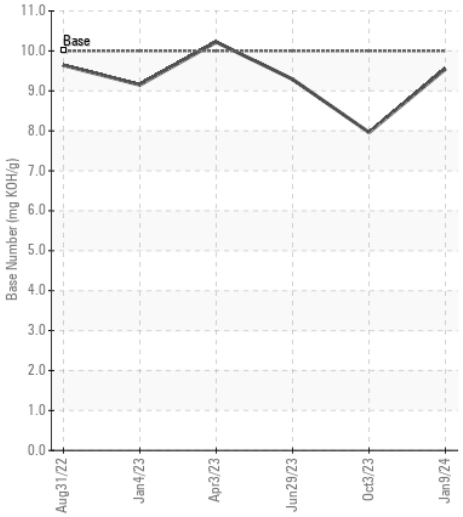

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0013963 **Recieved** : 16 Jan 2024
Lab Number : 06061368 **Diagnosed** : 18 Jan 2024
Unique Number : 10832750 **Diagnostician** : Jonathan Hester
Test Package : MOB 2 (Additional Tests: PrtCount)

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)

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