



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
PCS - PORTABLE CRUSHING SERVICES
Machine Id
KOMATSU WA500-7 LD01 - PCS
Component
Diesel Engine
Fluid
CHEVRON DELO 400 SDE SAE 15W40 (39 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KL0014102	KL0013093	KL0009607
Sample Date		Client Info		09 Jan 2024	03 Oct 2023	29 Jun 2023
Machine Age	hrs	Client Info		14995	14485	13954
Oil Age	hrs	Client Info		50	1182	651
Filter Age	hrs	Client Info		50	1182	651
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Filter Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				NORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	4	123	89
Chromium	ppm	ASTM D5185m	>20	0	3	3
Nickel	ppm	ASTM D5185m	>4	0	8	▲ 7
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	0	6
Lead	ppm	ASTM D5185m	>40	0	15	15
Copper	ppm	ASTM D5185m	>330	4	96	130
Tin	ppm	ASTM D5185m	>15	0	3	3
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

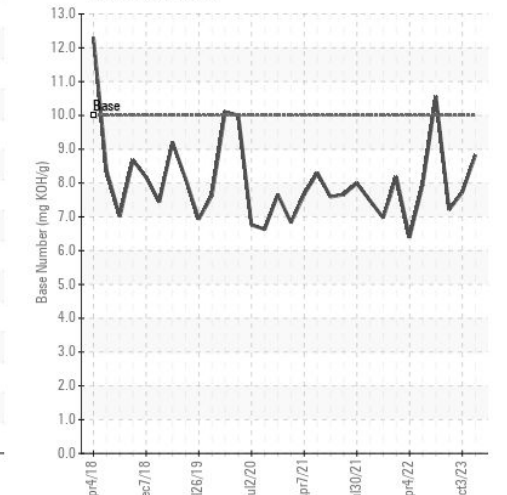
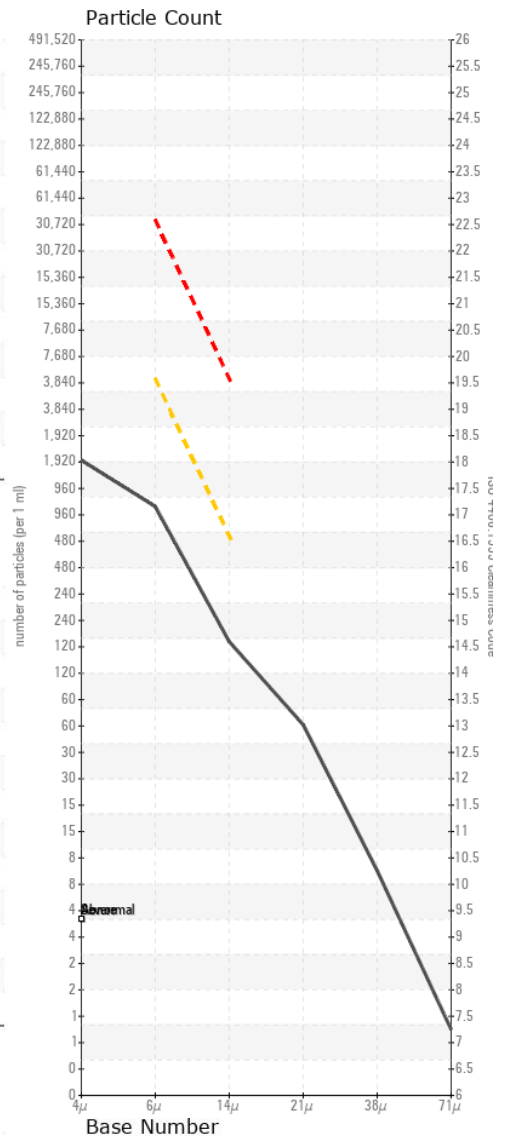
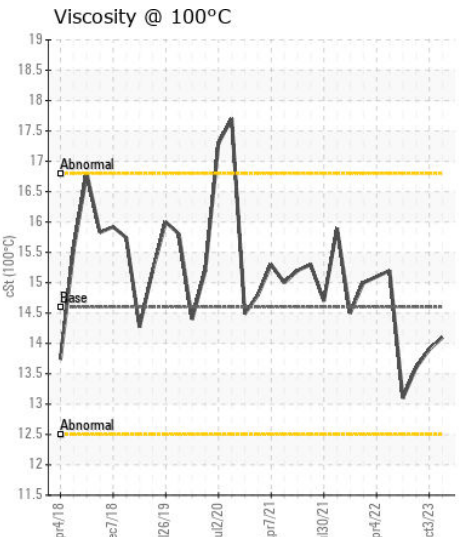
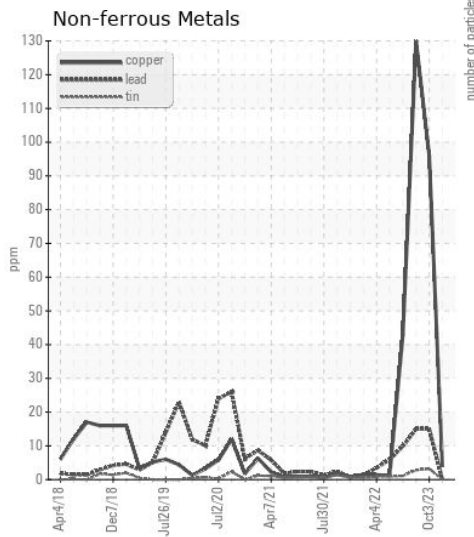
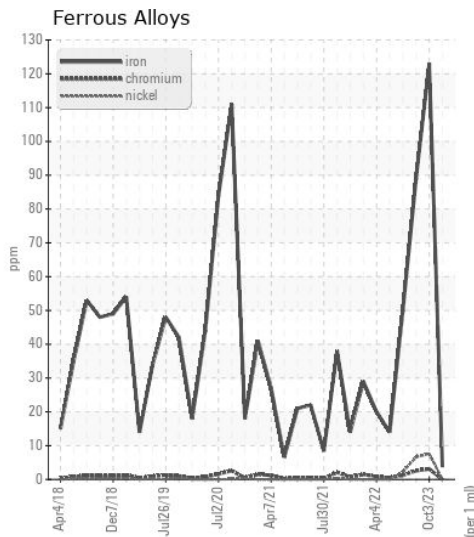
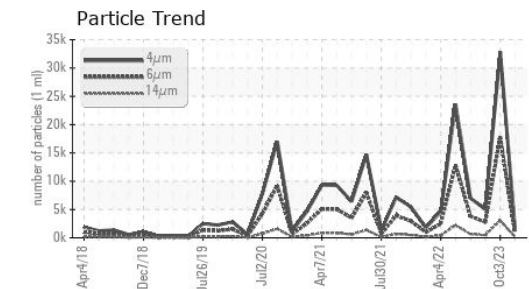
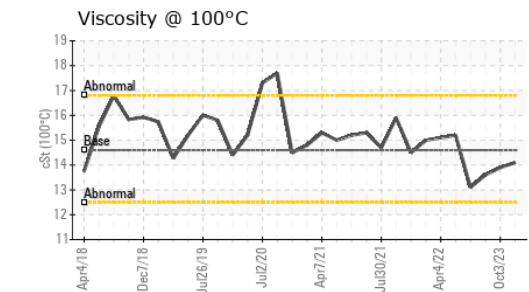
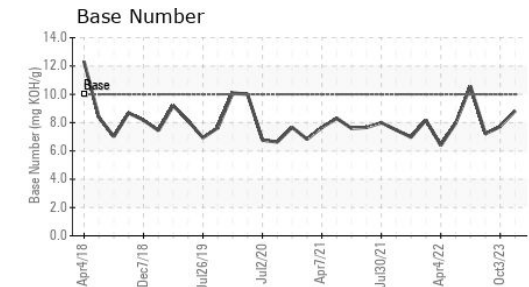
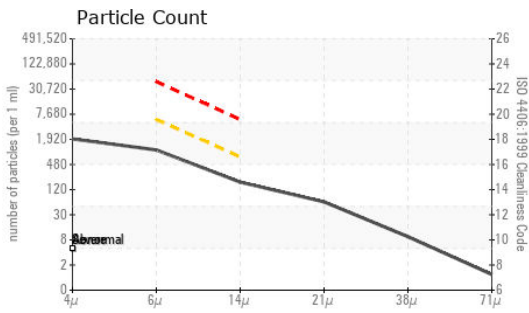
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>25	4	34	▲ 39
Potassium	ppm	ASTM D5185m	>20	<1	44	82
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	0.0	0.0
Soot %	%	*ASTM D7844	>3	0.2	2.3	1.7
Nitration	Abs/cm	*ASTM D7624	>20	4.3	10.7	10.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.4	26.1	24.8
Particles >4µm		ASTM D7647		1722	32806	5037
Particles >6µm		ASTM D7647	>5000	938	▲ 17872	2744
Particles >14µm		ASTM D7647	>640	160	▲ 3042	467
Particles >21µm		ASTM D7647	>160	54	▲ 1025	157
Particles >38µm		ASTM D7647	>40	8	▲ 158	24
Particles >71µm		ASTM D7647	>10	1	▲ 16	2
Oil Cleanliness		ISO 4406 (c)	>19/16	17/14	▲ 21/19	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	>0.2	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		0	41	80
Boron	ppm	ASTM D5185m		423	83	55
Barium	ppm	ASTM D5185m		0	0	10
Molybdenum	ppm	ASTM D5185m		81	70	58
Manganese	ppm	ASTM D5185m		<1	2	2
Magnesium	ppm	ASTM D5185m		353	267	194
Calcium	ppm	ASTM D5185m		1390	1719	1762
Phosphorus	ppm	ASTM D5185m	760	1011	966	930
Zinc	ppm	ASTM D5185m	800	1222	1209	1111
Sulfur	ppm	ASTM D5185m	3000	3799	4354	3753
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.4	19.5	19.2
Base Number (BN)	mg KOH/g	ASTM D2896	10	8.83	7.72	7.21
Visc @ 100°C	cSt	ASTM D445	14.6	14.1	13.9	13.6



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0014102 **Received** : 16 Jan 2024
Lab Number : 06061370 **Diagnosed** : 18 Jan 2024
Unique Number : 10832752 **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)