



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		KL0013764	KL0014102	KL0013093
Sample Date		Client Info		10 Apr 2024	09 Jan 2024	03 Oct 2023
Machine Age	hrs	Client Info		15548	14995	14485
Oil Age	hrs	Client Info		603	50	1182
Filter Age	hrs	Client Info		603	50	1182
Oil Changed		Client Info		Not Chngd	Changed	Not Chngd
Filter Changed		Client Info		Not Chngd	Changed	Not Chngd
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	27	4	123
Chromium	ppm	ASTM D5185m	>20	<1	0	3
Nickel	ppm	ASTM D5185m	>4	<1	0	8
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	2	0
Lead	ppm	ASTM D5185m	>40	2	0	15
Copper	ppm	ASTM D5185m	>330	7	4	96
Tin	ppm	ASTM D5185m	>15	2	0	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

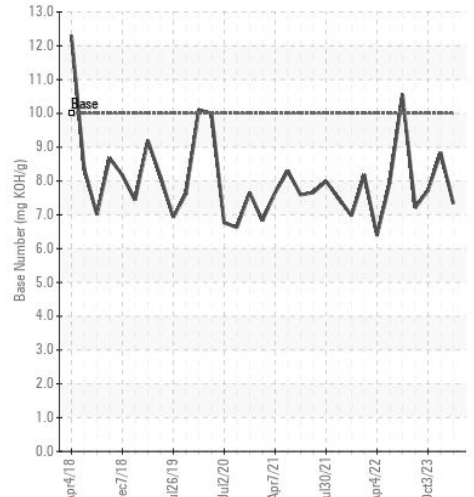
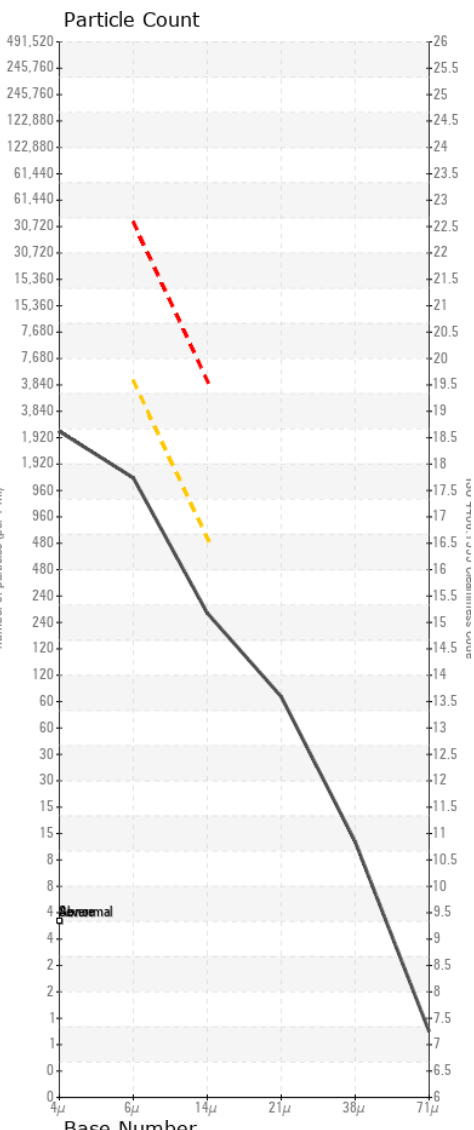
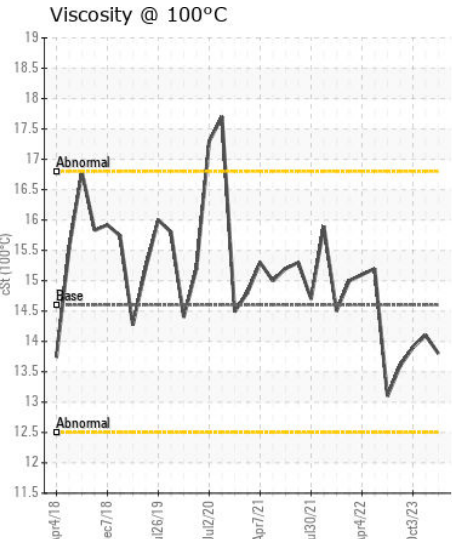
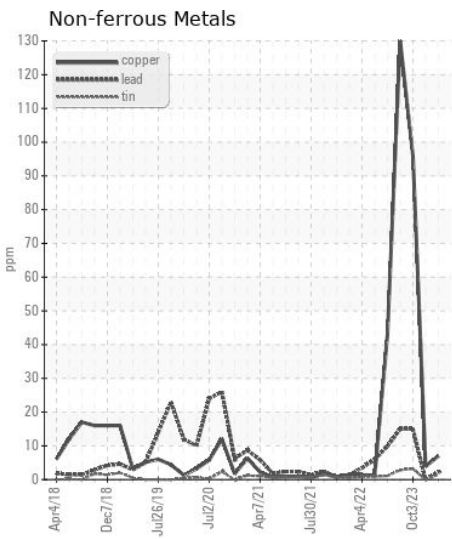
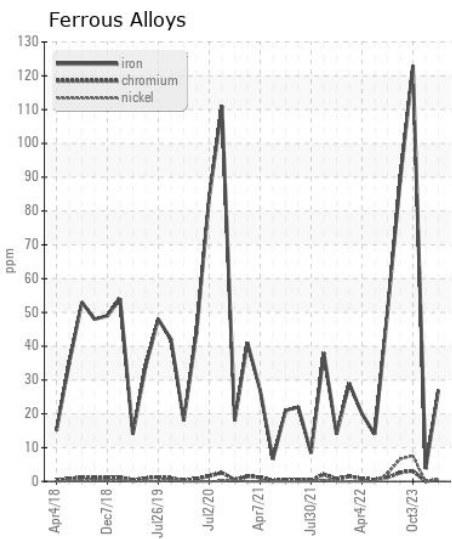
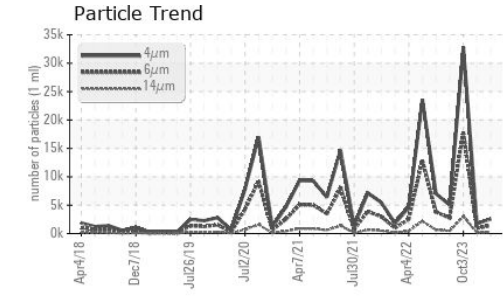
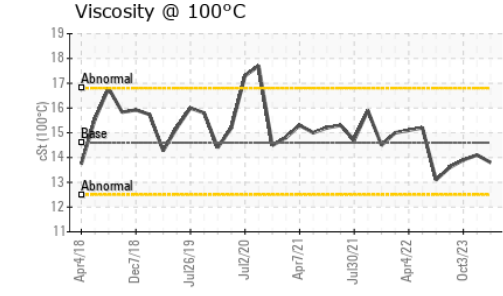
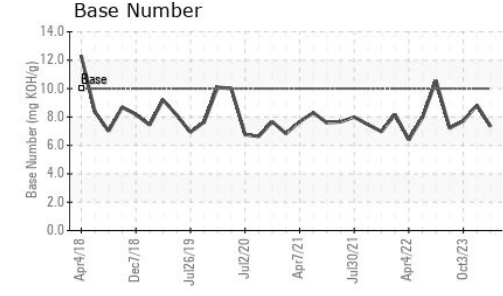
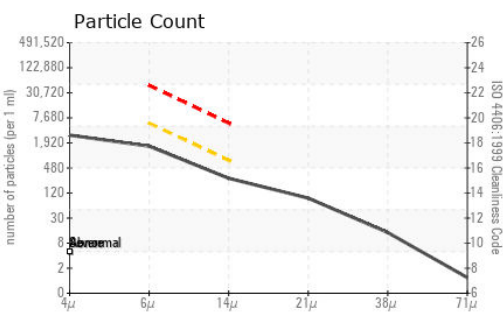
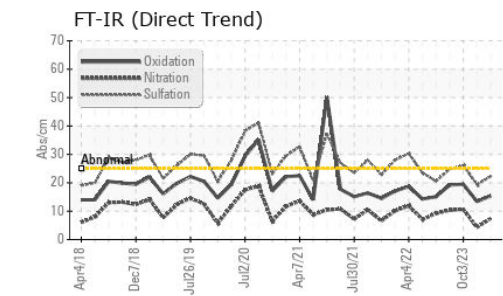
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>25	10	4	34
Potassium	ppm	ASTM D5185m	>20	3	<1	44
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	0.0
Soot %	%	*ASTM D7844	>3	1.3	0.2	2.3
Nitration	Abs/cm	*ASTM D7624	>20	7.4	4.3	10.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.2	19.4	26.1
Particles >4µm		ASTM D7647		2575	1722	32806
Particles >6µm		ASTM D7647	>5000	1403	938	▲ 17872
Particles >14µm		ASTM D7647	>640	239	160	▲ 3042
Particles >21µm		ASTM D7647	>160	80	54	▲ 1025
Particles >38µm		ASTM D7647	>40	12	8	▲ 158
Particles >71µm		ASTM D7647	>10	1	1	▲ 16
Oil Cleanliness		ISO 4406 (c)	>19/16	18/15	17/14	▲ 21/19
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		6	0	41
Boron	ppm	ASTM D5185m		361	423	83
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		89	81	70
Manganese	ppm	ASTM D5185m		2	<1	2
Magnesium	ppm	ASTM D5185m		390	353	267
Calcium	ppm	ASTM D5185m		1561	1390	1719
Phosphorus	ppm	ASTM D5185m	760	1136	1011	966
Zinc	ppm	ASTM D5185m	800	1322	1222	1209
Sulfur	ppm	ASTM D5185m	3000	4572	3799	4354
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.4	13.4	19.5
Base Number (BN)	mg KOH/g	ASTM D2896	10	7.33	8.83	7.72
Visc @ 100°C	cSt	ASTM D445	14.6	13.8	14.1	13.9



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0013764 **Received** : 16 Apr 2024
Lab Number : 06150587 **Tested** : 17 Apr 2024
Unique Number : 10980665 **Diagnosed** : 18 Apr 2024 - Sean Felton
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)