



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ABNORMAL

Machine Id
KOMATSU PC360LC-10 2589
Component
Diesel Engine
Fluid
KENDALL SUPER-D XA 15W40 (--- GAL)

RECOMMENDATION

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0850815	WC0850807	WC0790848
Sample Date		Client Info		31 Jan 2024	06 Oct 2023	09 Jun 2023
Machine Age	hrs	Client Info		12907	12587	12204
Oil Age	hrs	Client Info		320	383	314
Filter Age	hrs	Client Info		320	383	314
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	SEVERE	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	20	25	17
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		83	78	96
Silver	ppm	ASTM D5185(m)	>3	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	3	3	3
Lead	ppm	ASTM D5185(m)	>40	0	<1	<1
Copper	ppm	ASTM D5185(m)	>330	1	3	4
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		<1	0	<1

CONTAMINATION

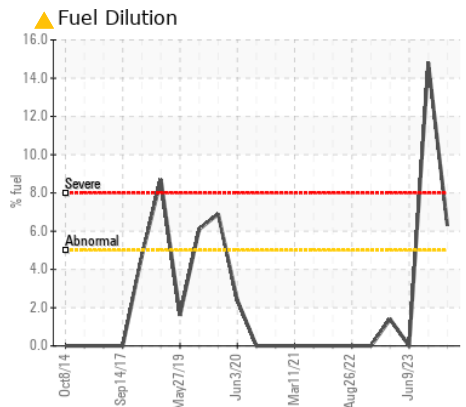
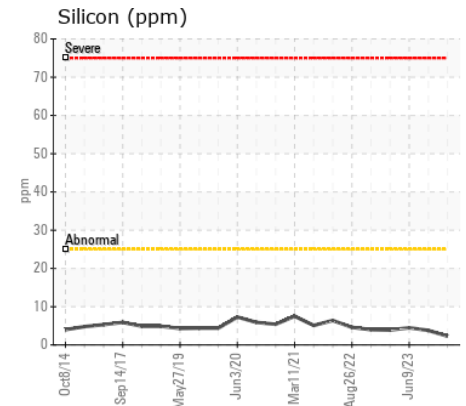
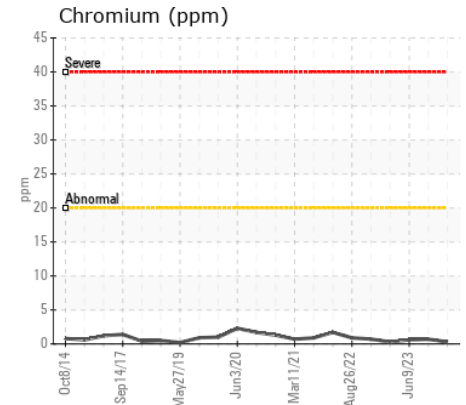
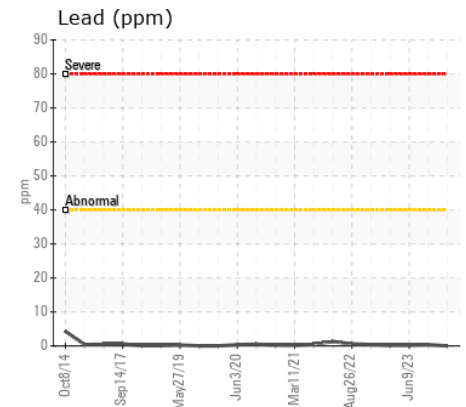
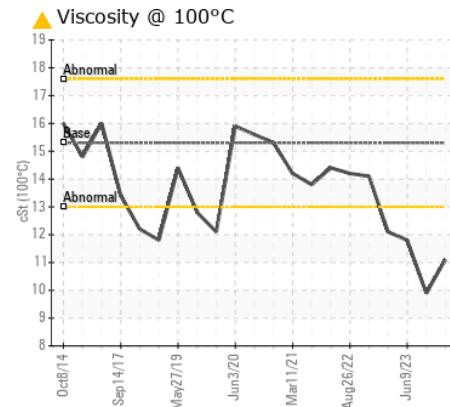
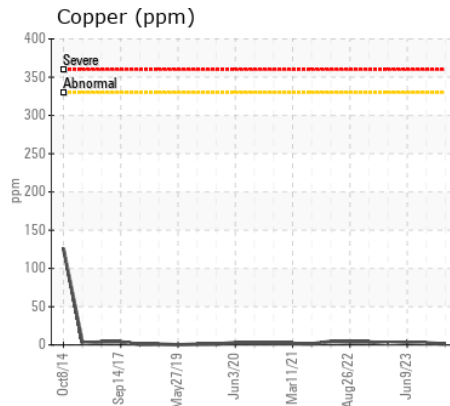
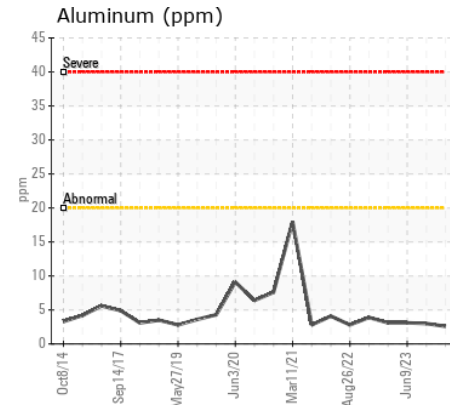
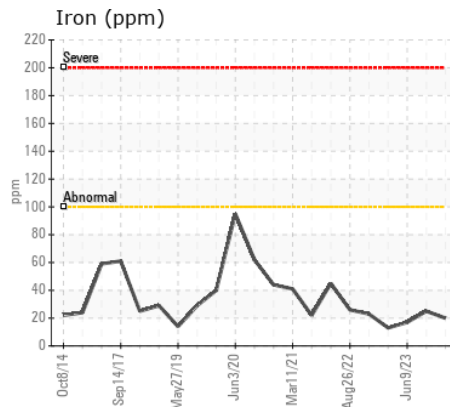
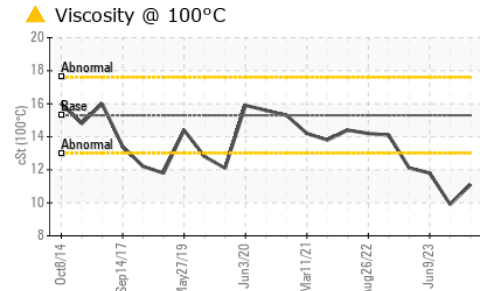
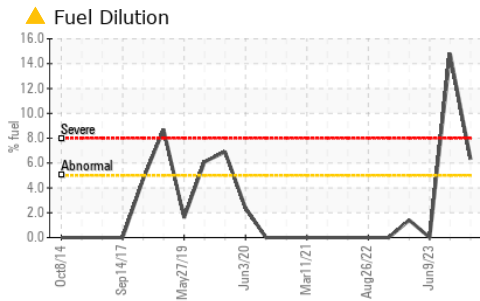
There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

Silicon	ppm	ASTM D5185(m)	>25	2	4	4
Potassium	ppm	ASTM D5185(m)	>20	2	3	4
Fuel	%	ASTM D7593*	>5	▲ 6.3	▲ 14.8	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.4	0.9	0.6
Nitration	Abs/cm	ASTM D7624*	>20	10.5	11.4	11.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.6	25.9	23.9
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185(m)		4	4	4
Boron	ppm	ASTM D5185(m)		81	45	84
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		2	3	<1
Manganese	ppm	ASTM D5185(m)		0	0	<1
Magnesium	ppm	ASTM D5185(m)		373	347	402
Calcium	ppm	ASTM D5185(m)		1697	1538	1854
Phosphorus	ppm	ASTM D5185(m)		912	834	1054
Zinc	ppm	ASTM D5185(m)	1260	1089	972	1201
Sulfur	ppm	ASTM D5185(m)		2870	2672	3148
Oxidation	Abs/.1mm	ASTM D7414*	>25	21.0	24.3	19.0
Visc @ 100°C	cSt	ASTM D7279(m)	15.3	▲ 11.1	▲ 9.9	11.8



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0850815 **Received** : 27 Mar 2024
Lab Number : 02624883 **Tested** : 28 Mar 2024
Unique Number : 5750002 **Diagnosed** : 28 Mar 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: PercentFuel)

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.

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