



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Machine Id  
**KOBELCO CK1600 04224**  
Component  
**Diesel Engine**  
Fluid  
**MOBIL DELVAC 1300 SUPER 15W40 (--- GAL)**

## RECOMMENDATION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0840301</b>	WC0840312	WC0840244
Sample Date		Client Info		<b>27 Jun 2024</b>	23 Mar 2024	28 Dec 2023
Machine Age	hrs	Client Info		<b>6482</b>	59112	5360
Oil Age	hrs	Client Info		<b>571</b>	551	565
Filter Age	hrs	Client Info		<b>571</b>	551	565
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>ATTENTION</b>	NORMAL	MARGINAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>&lt;1</b>	2	9
Chromium	ppm	ASTM D5185m	>20	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>2</b>	3	5
Lead	ppm	ASTM D5185m	>40	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m	>330	<b>0</b>	0	3
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

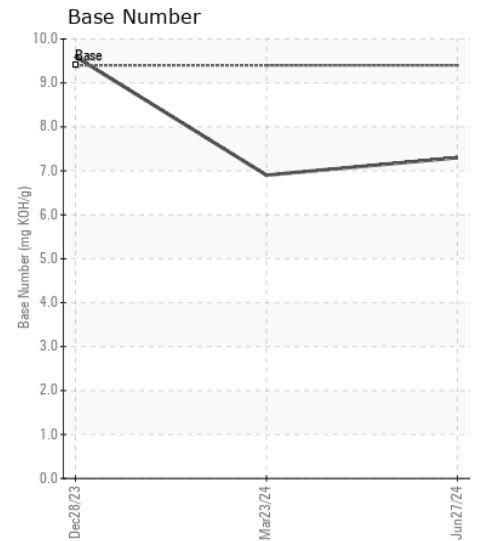
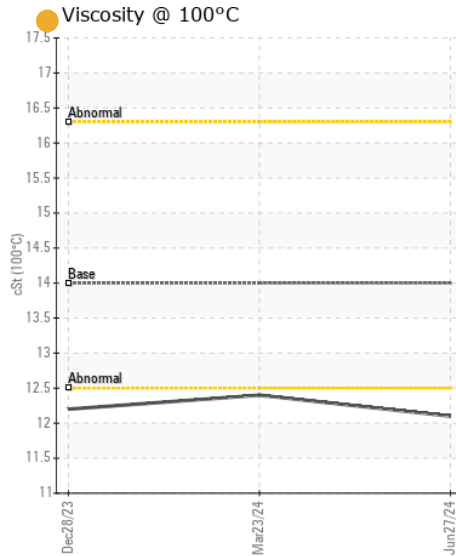
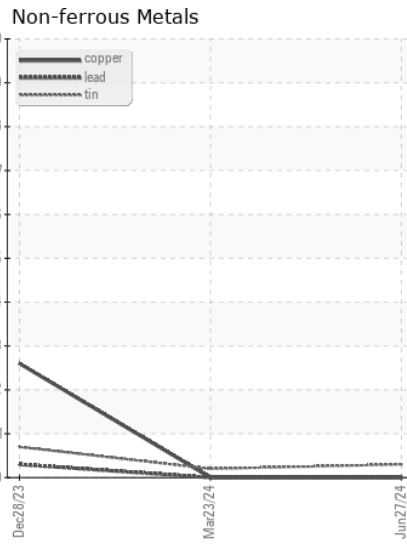
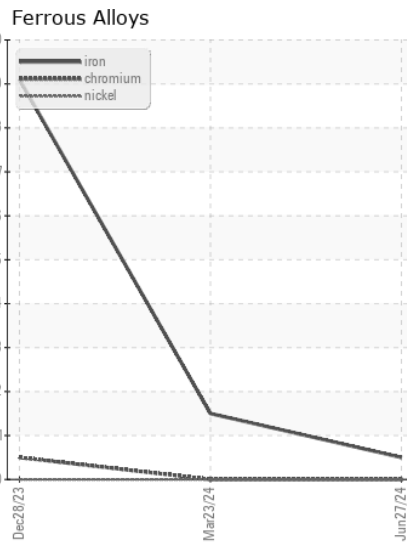
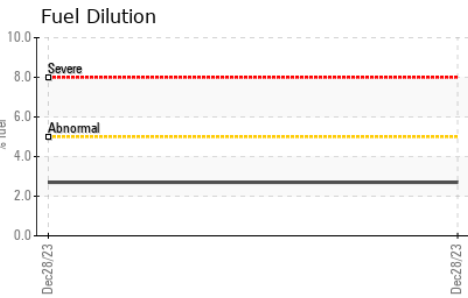
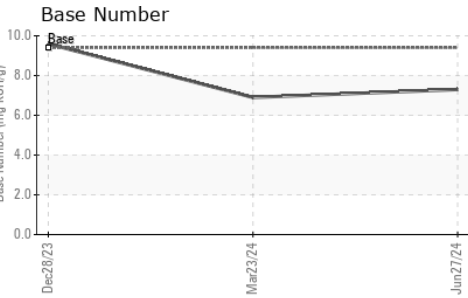
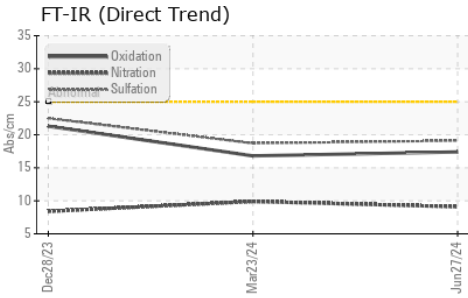
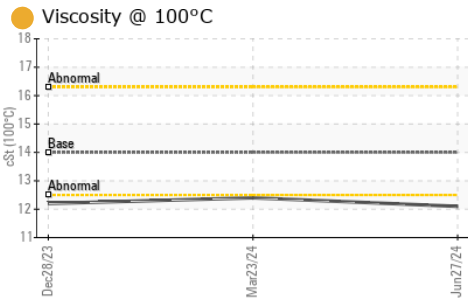
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>5</b>	5	8
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	1	0
Fuel	%	ASTM D3524	>5	<b>&lt;1.0</b>	<1.0	▲ 2.7
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.1</b>	0.1	0.2
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.1</b>	9.9	8.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>19.1</b>	18.7	22.5
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Sodium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	2
Boron	ppm	ASTM D5185m	0	<b>43</b>	60	45
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	0	<b>83</b>	99	49
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	0	<b>589</b>	628	499
Calcium	ppm	ASTM D5185m		<b>1346</b>	1261	1582
Phosphorus	ppm	ASTM D5185m		<b>744</b>	745	978
Zinc	ppm	ASTM D5185m		<b>837</b>	838	1073
Sulfur	ppm	ASTM D5185m		<b>3325</b>	3525	2727
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>17.4</b>	16.8	21.3
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	<b>7.3</b>	6.9	9.6
Visc @ 100°C	cSt	ASTM D445	14	<b>12.1</b>	12.4	12.2



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0840301 **Received** : 03 Jul 2024  
**Lab Number** : 06227217 **Tested** : 08 Jul 2024  
**Unique Number** : 11110710 **Diagnosed** : 08 Jul 2024 - Jonathan Hester  
**Test Package** : CONST ( Additional Tests: FuelDilution, PercentFuel, TBN )

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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