



TRAAP

Texas Refinery Advanced Analysis Program

# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**KOBELCO 300 12-05 (S/N 500189)**  
 Component  
**Diesel Engine**  
 Fluid  
**TRC PRO-SPEC V SYN BLEND 15W40 (8 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR06177396	TR06127219	---
Sample Date		Client Info		03 May 2024	07 Mar 2024	---
Machine Age	hrs	Client Info		5345	4961	---
Oil Age	hrs	Client Info		384	85	---
Filter Age	hrs	Client Info		384	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	8	11	---
Chromium	ppm	ASTM D5185m	>20	<1	<1	---
Nickel	ppm	ASTM D5185m	>4	<1	<1	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m	>3	0	<1	---
Aluminum	ppm	ASTM D5185m	>20	2	2	---
Lead	ppm	ASTM D5185m	>40	1	2	---
Copper	ppm	ASTM D5185m	>330	26	92	---
Tin	ppm	ASTM D5185m	>15	1	2	---
Vanadium	ppm	ASTM D5185m		<1	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

## CONTAMINATION

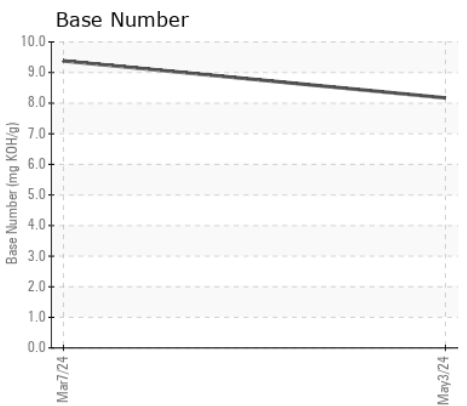
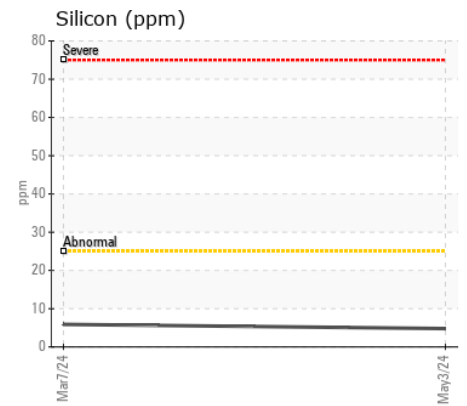
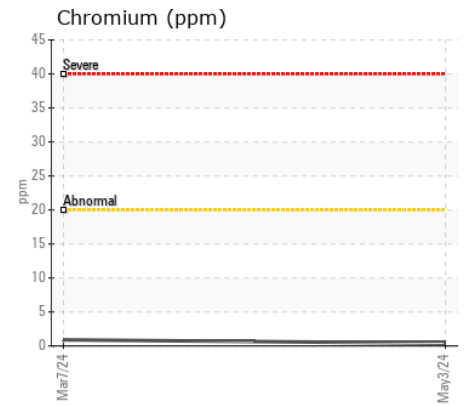
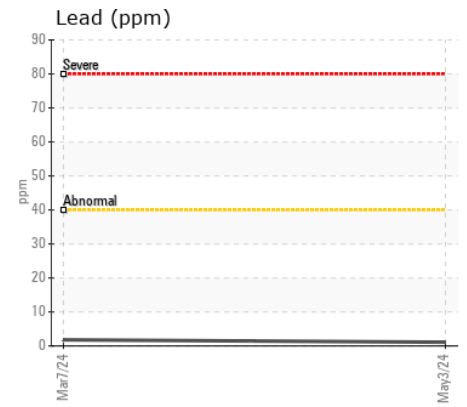
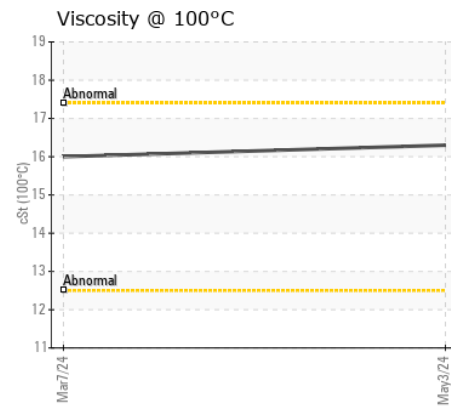
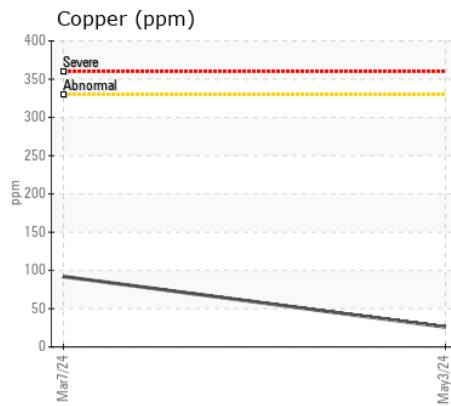
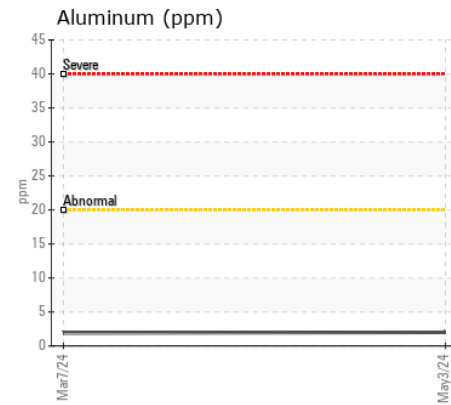
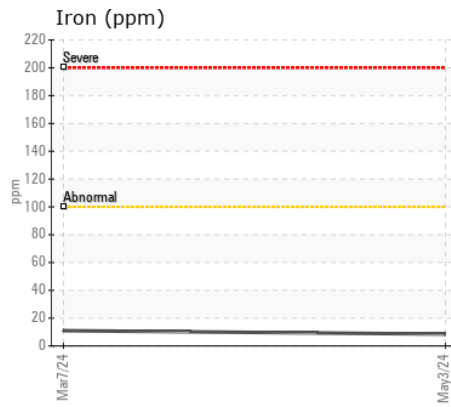
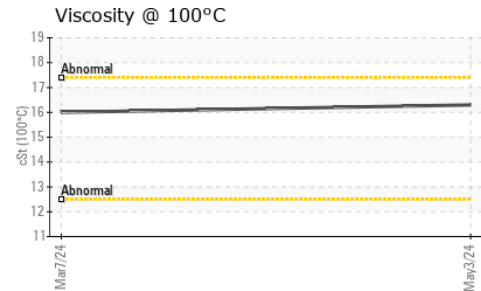
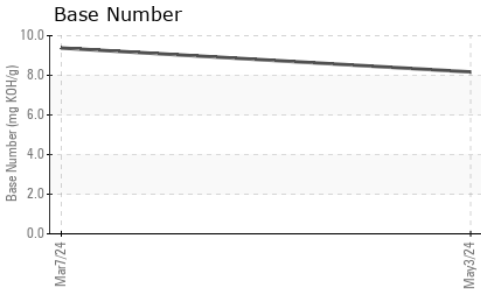
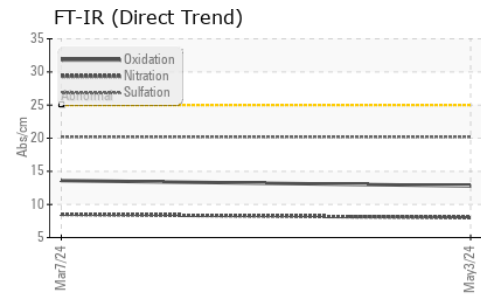
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	5	6	---
Potassium	ppm	ASTM D5185m	>20	5	4	---
Fuel		WC Method	>5	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.8	1	---
Nitration	Abs/cm	*ASTM D7624	>20	8.0	8.5	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.2	20.2	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	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	0	---
Boron	ppm	ASTM D5185m		0	<1	---
Barium	ppm	ASTM D5185m		1	<1	---
Molybdenum	ppm	ASTM D5185m		<1	6	---
Manganese	ppm	ASTM D5185m		<1	1	---
Magnesium	ppm	ASTM D5185m		9	13	---
Calcium	ppm	ASTM D5185m		2746	2631	---
Phosphorus	ppm	ASTM D5185m		1077	899	---
Zinc	ppm	ASTM D5185m		1196	1120	---
Sulfur	ppm	ASTM D5185m		4088	3399	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.8	13.6	---
Base Number (BN)	mg KOH/g	ASTM D2896		8.17	9.38	---
Visc @ 100°C	cSt	ASTM D445		16.3	16.0	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TR06177396  
**Lab Number** : 06177396  
**Unique Number** : 11023449  
**Test Package** : MOB 2

**Received** : 13 May 2024  
**Tested** : 14 May 2024  
**Diagnosed** : 14 May 2024 - Wes Davis

**KASKI LOGGING**  
 22411 HE CEDAR CREEK RD  
 AMBOY, WA  
 US 98601  
 Contact: NATHAN BYRD

To discuss this sample report, contact Customer Service at 1-800-827-0711.

\* - 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)

T:  
F: