



ASCENDUM

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
Ascendum Machinery/250 Hour CSA
 Machine Id
KUBOTA KX161-3S 1388 (S/N 30569)
 Component
Hydraulic System
 Fluid
VOLVO SUPER HYDRAULIC OIL 46 (--- GAL)

RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ASC0001609	VCP0000939	---
Sample Date		Client Info		30 Jan 2024	11 Mar 2022	---
Machine Age	hrs	Client Info		500	56	---
Oil Age	hrs	Client Info		500	56	---
Filter Age	hrs	Client Info		0	56	---
Oil Changed		Client Info		Not Changd	Not Changd	---
Filter Changed		Client Info		Not Changd	Not Changd	---
Sample Status				ABNORMAL	ABNORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	12	11	---
Chromium	ppm	ASTM D5185m	>10	<1	<1	---
Nickel	ppm	ASTM D5185m	>10	0	0	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>10	1	3	---
Lead	ppm	ASTM D5185m	>10	1	2	---
Copper	ppm	ASTM D5185m	>75	6	6	---
Tin	ppm	ASTM D5185m	>10	<1	<1	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

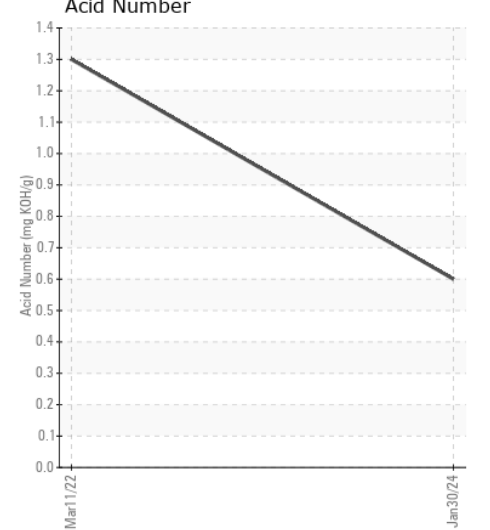
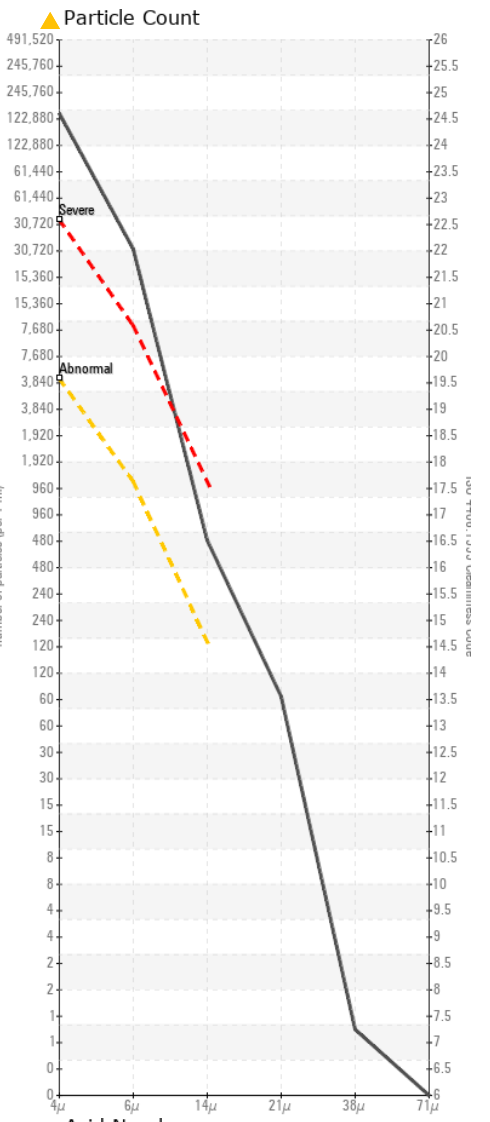
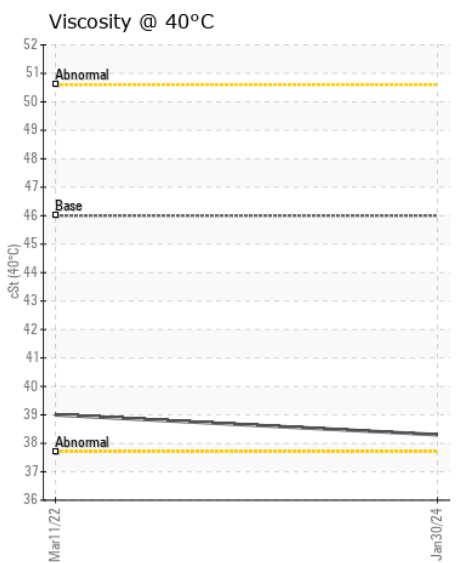
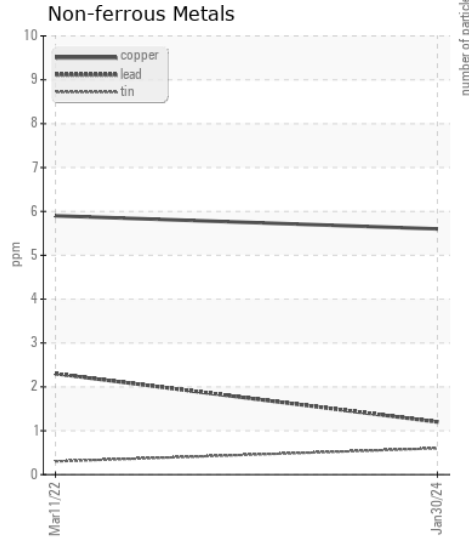
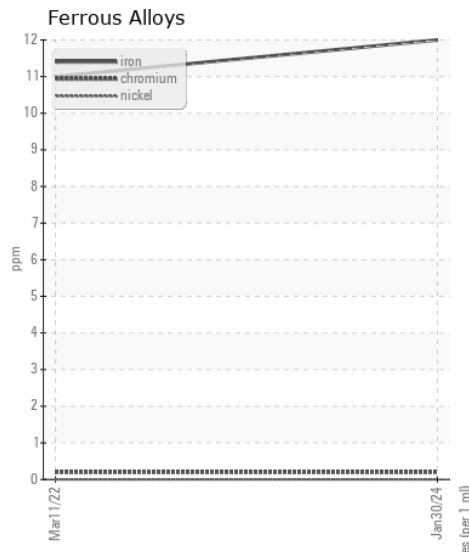
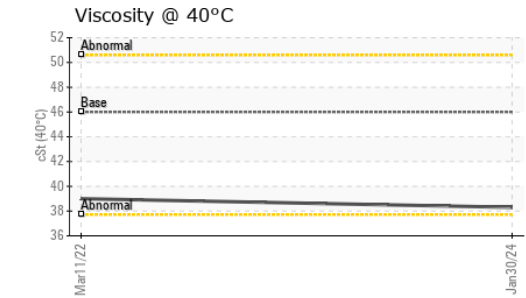
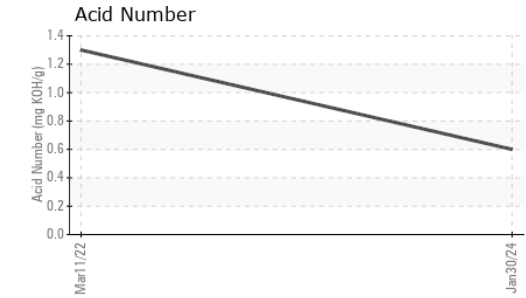
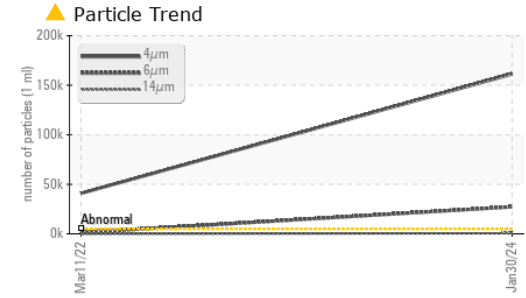
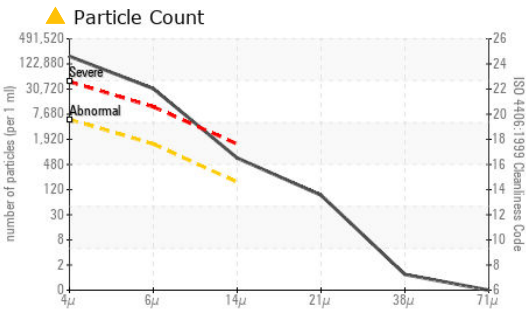
There is a high amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>20	15	11	---
Potassium	ppm	ASTM D5185m	>20	<1	0	---
Water		WC Method	>0.1	NEG	NEG	---
Particles >4µm		ASTM D7647	>5000	▲ 161308	▲ 40943	---
Particles >6µm		ASTM D7647	>1300	▲ 27283	1240	---
Particles >14µm		ASTM D7647	>160	▲ 603	17	---
Particles >21µm		ASTM D7647	>40	▲ 78	4	---
Particles >38µm		ASTM D7647	>10	1	0	---
Particles >71µm		ASTM D7647	>3	0	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 25/22/16	▲ 23/17/11	---
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	>0.1	NEG	NEG	---

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		2	<1	---
Boron	ppm	ASTM D5185m	14	2	0	---
Barium	ppm	ASTM D5185m	0.0	0	0	---
Molybdenum	ppm	ASTM D5185m	0.0	2	10	---
Manganese	ppm	ASTM D5185m	0.0	<1	<1	---
Magnesium	ppm	ASTM D5185m	2.6	29	579	---
Calcium	ppm	ASTM D5185m	49	502	1580	---
Phosphorus	ppm	ASTM D5185m	354	386	938	---
Zinc	ppm	ASTM D5185m	419	438	1092	---
Sulfur	ppm	ASTM D5185m	3719	1416	3037	---
Acid Number (AN)	mg KOH/g	ASTM D8045		0.60	1.30	---
Visc @ 40°C	cSt	ASTM D445	46	38.3	39.0	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ASC0001609 **Received** : 31 Jan 2024
Lab Number : 06075651 **Diagnosed** : 01 Feb 2024
Unique Number : 10857742 **Diagnostician** : Don Baldrige
Test Package : MOBCE

TRIANGLE GRADING AND PAVING INC
 1521 Huffman Mill Rd
 BURLINGTON, NC
 US 27216
 Contact: ADAM CORBETT
 wacorbett@trianglegradingpaving.com
 T:
 F: (336)584-0145

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)