



ASCENDUM

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
Ascendum Machinery/250 Hour CSA
 Machine Id
INGERSOLL RAND SD-100D PRO-PAC 1683 (S/N 143425)
 Component
Hydraulic System
 Fluid
VOLVO SUPER HYDRAULIC OIL 46 (22 GAL)

RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ASC0001864	VCP0004177	---
Sample Date		Client Info		21 Dec 2023	22 Sep 2022	---
Machine Age	hrs	Client Info		8324	8324	---
Oil Age	hrs	Client Info		8324	8324	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Not Changd	Not Changd	---
Filter Changed		Client Info		Not Changd	Changed	---
Sample Status				ABNORMAL	ABNORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	6	6	---
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	2	3	---
Lead	ppm	ASTM D5185m	>10	2	3	---
Copper	ppm	ASTM D5185m	>75	21	20	---
Tin	ppm	ASTM D5185m	>10	0	<1	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

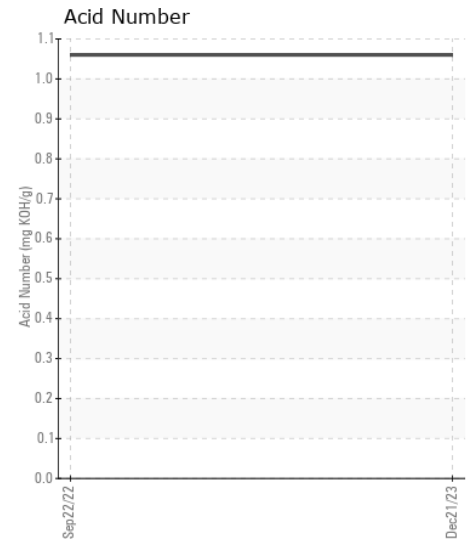
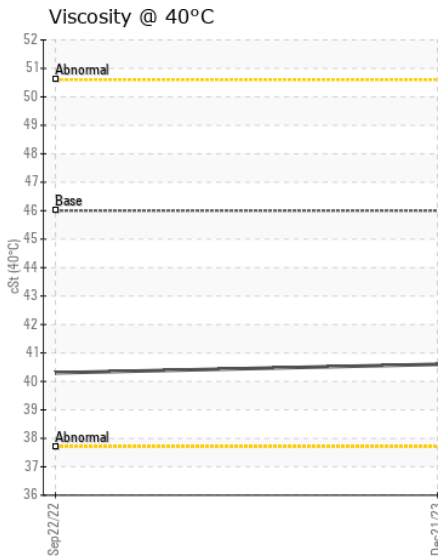
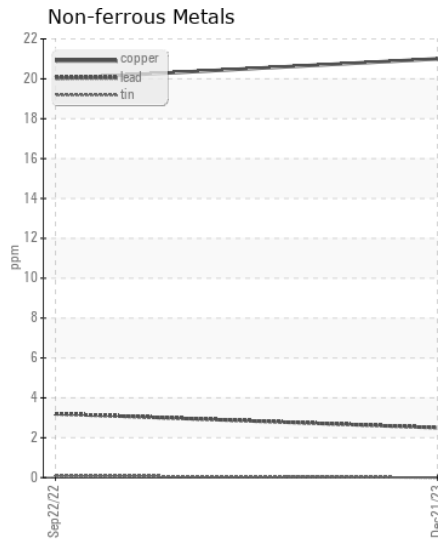
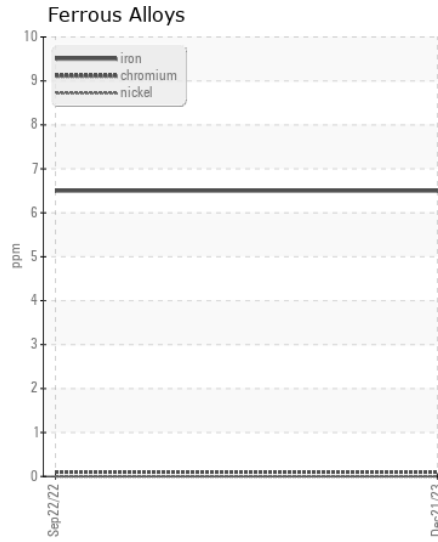
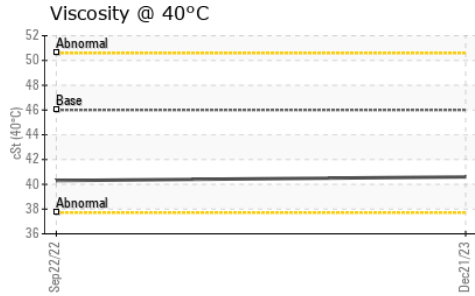
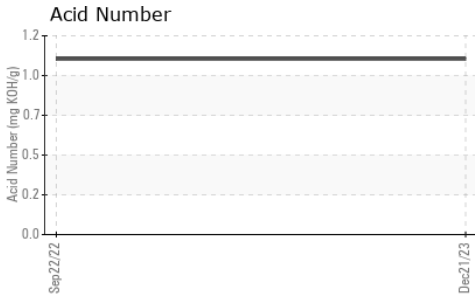
Moderate concentration of visible dirt/debris present in the oil.

Silicon	ppm	ASTM D5185m	>20	7	5	---
Potassium	ppm	ASTM D5185m	>20	1	2	---
Water		WC Method	>0.1	NEG	NEG	---
Particles >4µm		ASTM D7647	>5000	---	▲ 30948	---
Particles >6µm		ASTM D7647	>1300	---	▲ 6819	---
Particles >14µm		ASTM D7647	>160	---	▲ 765	---
Particles >21µm		ASTM D7647	>40	---	▲ 295	---
Particles >38µm		ASTM D7647	>10	---	▲ 21	---
Particles >71µm		ASTM D7647	>3	---	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	---	▲ 22/20/17	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	▲ MODER	LIGHT	---
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		0	0	---
Boron	ppm	ASTM D5185m	14	39	36	---
Barium	ppm	ASTM D5185m	0.0	134	127	---
Molybdenum	ppm	ASTM D5185m	0.0	4	4	---
Manganese	ppm	ASTM D5185m	0.0	0	<1	---
Magnesium	ppm	ASTM D5185m	2.6	289	275	---
Calcium	ppm	ASTM D5185m	49	1675	1686	---
Phosphorus	ppm	ASTM D5185m	354	873	935	---
Zinc	ppm	ASTM D5185m	419	1145	1108	---
Sulfur	ppm	ASTM D5185m	3719	5010	5261	---
Acid Number (AN)	mg KOH/g	ASTM D8045		1.06	1.06	---
Visc @ 40°C	cSt	ASTM D445	46	40.6	40.3	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ASC0001864
Lab Number : 06044714
Unique Number : 10805322
Test Package : MOBCE

Received : 26 Dec 2023
Tested : 27 Dec 2023
Diagnosed : 27 Dec 2023 - Don Baldrige

TRIANGLE GRADING AND PAVING INC
 1521 Huffman Mill Rd
 BURLINGTON, NC
 US 27216
 Contact: ADAM CORBETT
 wacorbett@trianglegradingpaving.com

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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