



# ASCENDUM

## OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ATTENTION

Area  
**Ascendum Machinery/250 Hour Service**  
 Machine Id  
**SANDVIK 16712**  
 Component  
**Compressor**  
 Fluid  
**SHELL CORENA AS ISO 46 (--- GAL)**

### RECOMMENDATION

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

### WEAR

All component wear rates are normal.

### CONTAMINATION

Elemental level of silicon (Si) above normal indicating ingress of seal material.

### FLUID CONDITION

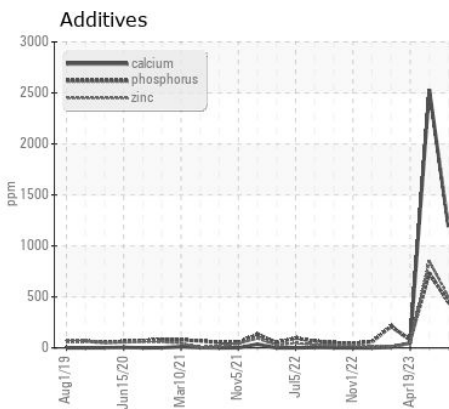
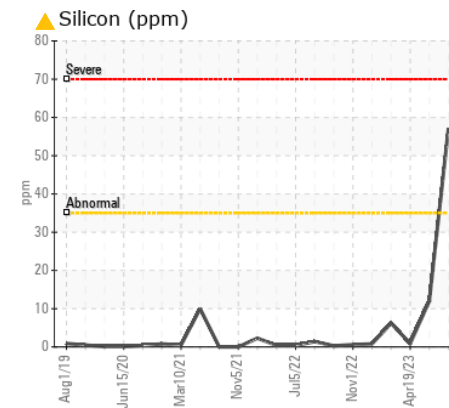
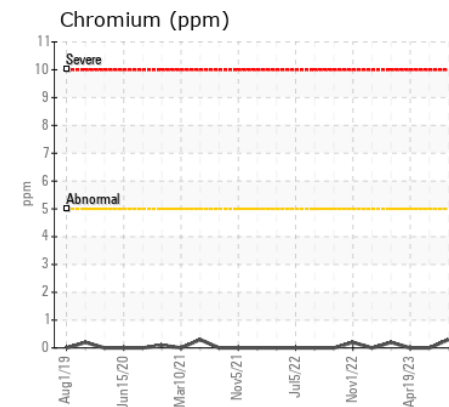
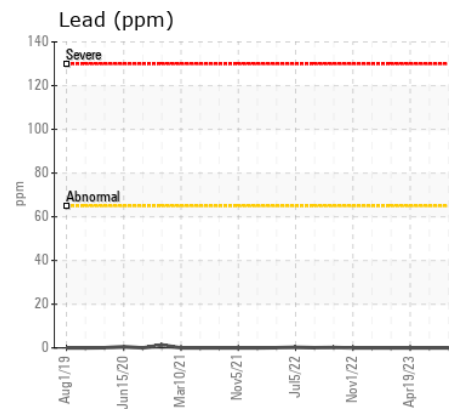
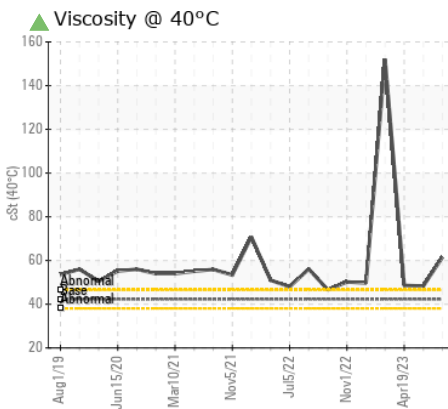
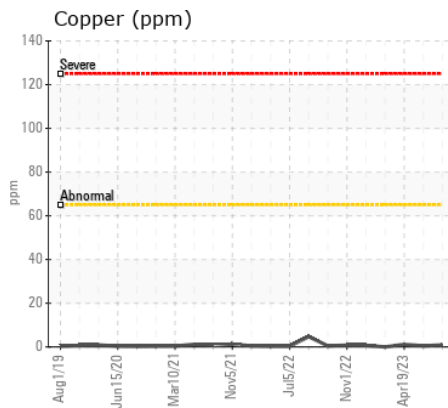
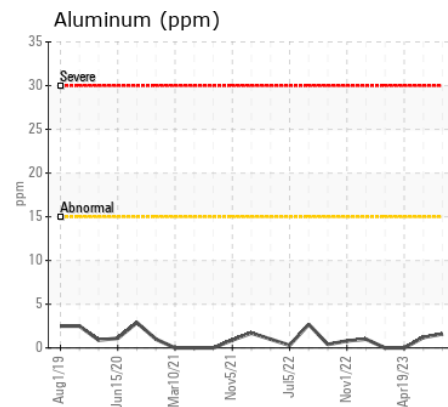
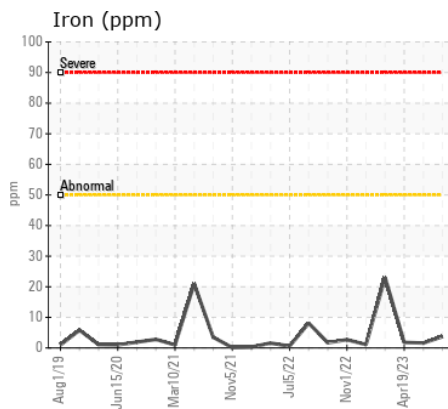
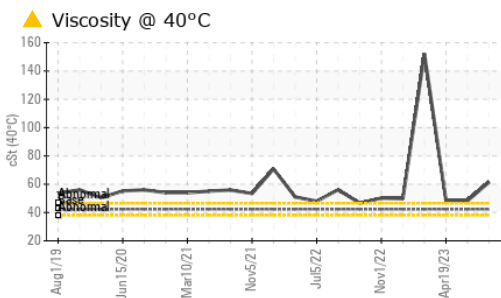
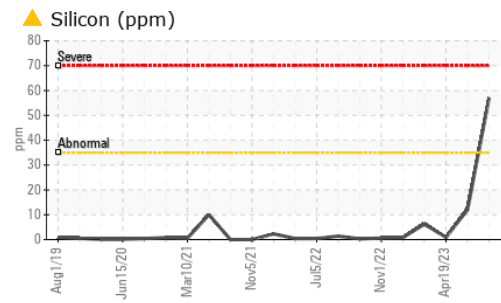
Viscosity of sample indicates oil is within ISO 68 range, advise investigate. Confirm oil type.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ASC0001535	ASC0005441	VCP0006659
Sample Date		Client Info		17 Jan 2024	20 Oct 2023	19 Apr 2023
Machine Age	hrs	Client Info		11392	10901	9909
Oil Age	hrs	Client Info		491	992	361
Filter Age	hrs	Client Info		0	0	361
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	ABNORMAL

Iron	ppm	ASTM D5185m	>50	4	2	2
Chromium	ppm	ASTM D5185m	>5	<1	0	0
Nickel	ppm	ASTM D5185m		0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>15	2	1	0
Lead	ppm	ASTM D5185m	>65	0	0	0
Copper	ppm	ASTM D5185m	>65	<1	<1	1
Tin	ppm	ASTM D5185m	>10	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

Silicon	ppm	ASTM D5185m	>35	▲ 57	12	<1
Potassium	ppm	ASTM D5185m	>20	27	2	<1
Water		WC Method	>0.1	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	0.2%

Sodium	ppm	ASTM D5185m		12	8	2
Boron	ppm	ASTM D5185m		28	3	0
Barium	ppm	ASTM D5185m		4	0	0
Molybdenum	ppm	ASTM D5185m		11	1	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		35	19	2
Calcium	ppm	ASTM D5185m		1189	2530	49
Phosphorus	ppm	ASTM D5185m		451	732	79
Zinc	ppm	ASTM D5185m		503	851	46
Sulfur	ppm	ASTM D5185m		2790	2613	1076
Visc @ 40°C	cSt	ASTM D445	42.3	▲ 61.5	48.3	48.6



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ASC0001535 **Received** : 29 Jan 2024  
**Lab Number** : 06073395 **Diagnosed** : 01 Feb 2024  
**Unique Number** : 10850072 **Diagnostician** : Jonathan Hester  
**Test Package** : MOBCE

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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