

Hydraulic System

DIAGNOSIS

Contamination

Fluid Condition

service.

Recommendation

Machine I

Component

Wear

OIL ANALYSIS REPORT

ASEA TURBINE TG 1 (S/N 132353)

QUAKER CHEMICAL QUINTOLUBRIC 888-46 (30 GAL)

Sample Rating Trend

NORMAL





USP217952

0

0

N/A

NORMAL

SAMPLE INFORMATION method USP0003728 USP0000655 Client Info Sample Number Resample at the next service interval to monitor. 18 Nov 2023 10 Aug 2023 31 Jul 2023 Sample Date Client Info 0 0 Machine Age vrs **Client Info** All component wear rates are normal. Oil Age yrs Client Info 0 0 Oil Changed **Client Info** N/A N/A NORMAL Sample Status ABNORMAL There is no indication of any contamination in the oil. The amount and size of particulates present in WEAR METALS the system are acceptable. >20 ASTM D5185m 0 Iron ppm Chromium ppm ASTM D5185m >20 0 The AN level is acceptable for this fluid. Confirmed. 0 The condition of the oil is suitable for further Nickel ppm ASTM D5185m >20 ASTM D5185m Titanium 0 ppm Silver ppm ASTM D5185m 0 Aluminum ppm ASTM D5185m >20 4 >20 Lead ASTM D5185m 0 ppm >20 0 Copper ASTM D5185m ppm Tin ppm ASTM D5185m >20 41 Vanadium ppm ASTM D5185m 0 Cadmium ppm ASTM D5185m 0 0 ASTM D5185m Boron ppm Barium ppm ASTM D5185m 0 0 Molybdenum ASTM D5185m ppm 0 Manganese ppm ASTM D5185m Magnesium ASTM D5185m 1 ppm 2 Calcium ppm ASTM D5185m Phosphorus ppm ASTM D5185m 393 Zinc ASTM D5185m 0 ppm Sulfur ASTM D5185m 2421 ppm CONTAMINANTS Silicon ppm ASTM D5185m >15 <1 Sodium ppm ASTM D5185m ٥

Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m	>20	0	0	1
Water	%	ASTM D6304	>0.05	0.023	0.039	0.046
ppm Water	ppm	ASTM D6304	>500	234.1	396.2	465.6
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	517	6 312	909
Particles >6µm		ASTM D7647	>1300	174	4 2530	282
Particles >14µm		ASTM D7647	>160	20	A 275	24
Particles >21µm		ASTM D7647	>40	7	60	6
Particles >38µm		ASTM D7647	>10	0	2	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	16/15/11	▲ 20/19/15	17/15/12
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
FLUID DEGRADA	TION	method	limit/base	current	history1	his

Acid Number (AN)

mg KOH/g ASTM D8045

Contact/Location: BRIAN GERMSCHEID - ADMMANMN

0 46

2.99

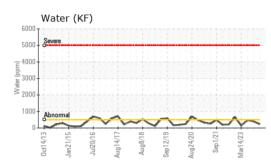
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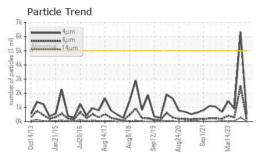
2

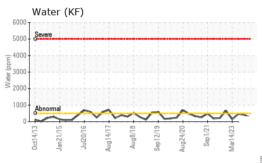
2.57



OIL ANALYSIS REPORT







75 70

65

cSt (40°C)

50

45

40

6

of particles (1 ml) 8 4 5 9 9

2

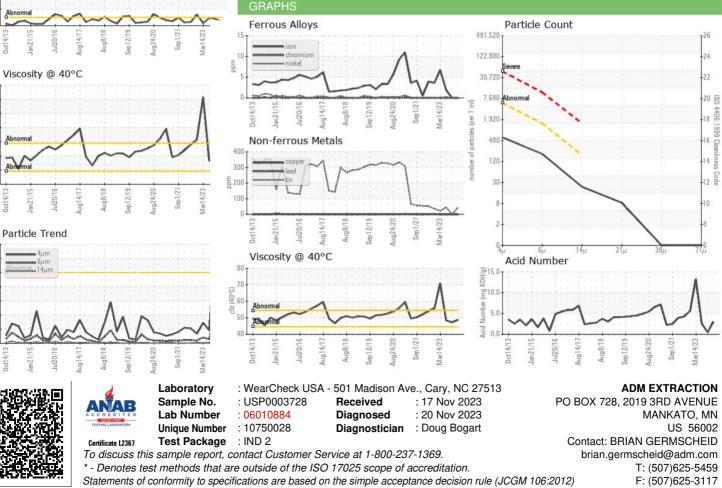
At

Oct14/13

VISUAL		method				history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
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	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		48.7	47.2	48.4
SAMPLE IMAGES	;	method	limit/base	current	history1	history2
Color						NG A
				AND		

Bottom





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