

OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



GTRB-4503 GENERATOR

Component

Tank Turbine

R&O OIL ISO 32 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the component. The amount and size of particulates present in the system is acceptable.

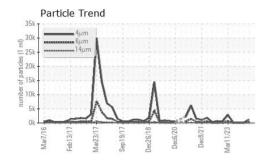
Fluid Condition

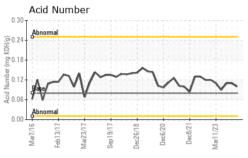
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

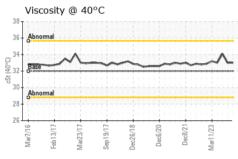
		w2016 Feb20	17 Mar2017 Sep2017	Dec2018 Dec2020 Dec2021 M	Mar2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		HLC0003106	HLC0003126	HLC0002312
Sample Date		Client Info		22 Mar 2024	03 Jan 2024	12 Oct 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	٧	method	limit/base	current	history1	history2
Water		WC Method	>0.03	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>15	0	0	0
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		<1	<1	0
Aluminum	ppm	ASTM D5185m	>10	2	2	<1
Lead	ppm	ASTM D5185m		<1	<1	8
Copper	ppm	ASTM D5185m	>5	<1	<1	<1
Tin	ppm	ASTM D5185m	>5	<1	<1	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		<1	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	0	0	0
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	5	<1	<1	0
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m	5	<1	<1	0
Calcium	ppm	ASTM D5185m	5	4	4	0
Phosphorus	ppm	ASTM D5185m	100	20	17	4
Zinc	ppm	ASTM D5185m	25	0	0	0
Sulfur	ppm	ASTM D5185m	1500	328	331	641
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	3	4	1
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m	>20	1	<1	1
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		1227	165	140
Particles >6µm		ASTM D7647	>1300	283	61	32
Particles >14µm		ASTM D7647	>160	24	8	3
Particles >21µm		ASTM D7647	>40	8	2	1
Particles >38μm		ASTM D7647	>10	1	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/17/14	17/15/12	15/13/10	14/12/9
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.08	0.10	0.11	0.11

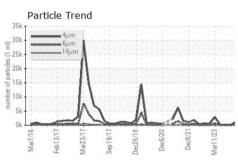


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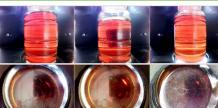
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	LIGHT	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.03	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
ELLIID DBODEB	TIES	mothod	limit/base	current	history1	history?

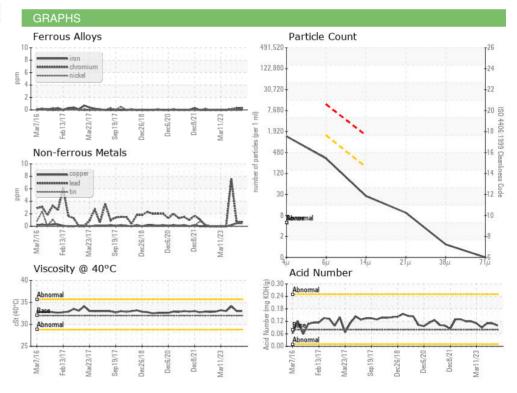
FLUID PROPER	THES	method	iimii/base	current	nistory i	nistory∠
Visc @ 40°C	cSt	ASTM D445	32	33.0	33.0	34.1

SAMPLE IMAGES method limit/ba

Color

Bottom









Report Id: BPEEND [WUSCAR] 06131368 (Generated: 04/01/2024 14:26:25) Rev: 1

Laboratory

Sample No. Lab Number : 06131368 Unique Number: 10950833

: HLC0003106

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested**

: 27 Mar 2024 : 28 Mar 2024 Diagnosed

: 01 Apr 2024 - Don Baldridge

HILCORP ALASKA LLC - ENDICOTT 604 WAREHOUSE ENDICOTT

PRUDHOE BAY, AK US 99734

Contact: SEAN LOWTHER

slowther@hilcorp.com T: (907)659-6800

Test Package : IND 2 Certificate L2367 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)

Contact/Location: SEAN LOWTHER - BPEEND

F: