

OIL ANALYSIS REPORT

Sample Rating Trend





Area OIL Machine Id GN-4020B (S/N SOLAR B) Turbine

CASTROL PERFECTO XPG 32 (1000 GAL)

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

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

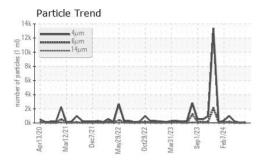
Fluid Condition

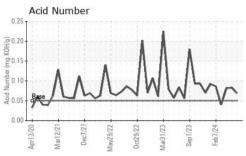
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

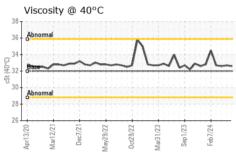
		12020 marz	ZI DBCZOZI MBYZOZZ	OCIZOZZ WIRIZOZS SEPZOZS I	502024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		HLC0003295	HLC0003306	HLC0003195
Sample Date		Client Info		28 May 2024	01 May 2024	30 Mar 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	N	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	<1
Chromium	ppm	ASTM D5185m	>4	0	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>10	0	0	1
Lead	ppm	ASTM D5185m		0	<1	2
Copper	ppm	ASTM D5185m	>5	<1	<1	<1
Tin	ppm	ASTM D5185m	>5	0	0	1
Vanadium	ppm	ASTM D5185m		<1	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	1
Manganese	ppm		0	0	0	<1
Magnesium	ppm	ASTM D5185m	0	0	0	11
Calcium	ppm	ASTM D5185m	0	2	0	33
Phosphorus	ppm	ASTM D5185m	25	9	<1	26
Zinc	ppm	ASTM D5185m	0	2	0	15
Sulfur	ppm	ASTM D5185m	1500	312	333	341
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	1	2	2
Sodium	ppm	ASTM D5185m		21	23	21
Potassium	ppm	ASTM D5185m	>20	0	<1	1
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		101	68	238
Particles >6µm		ASTM D7647		28	15	33
Particles >14µm		ASTM D7647	>160	3	1	3
Particles >21µm		ASTM D7647		0	1	1
Particles >38µm		ASTM D7647	>10	0	1	0
Particles >71µm		ASTM D7647		0	1	0
Oil Cleanliness		ISO 4406 (c)	>/17/14	14/12/9	13/11/7	15/12/9
FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2

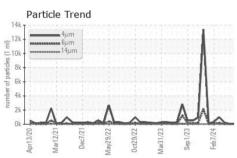


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VISUAL		method				history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
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	>0.03	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
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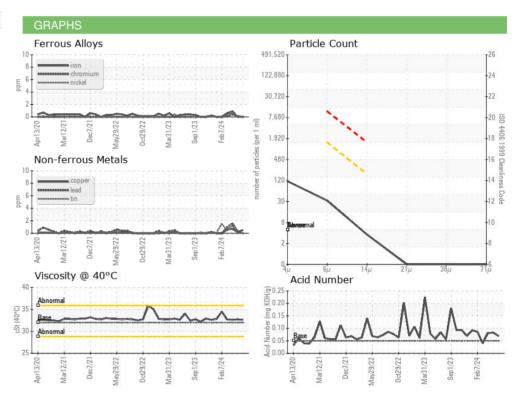
Visc @ 40°C cSt ASTM D445 32.0 32.6 32.7	32.6

SAMPLE IMAGES

Color

Bottom









Certificate 12367

Laboratory Sample No.

Test Package : IND 2

: HLC0003295 Lab Number : 06205335 Unique Number : 11072796

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 10 Jun 2024 **Tested** : 12 Jun 2024 Diagnosed

: 12 Jun 2024 - Don Baldridge

US 99734 Contact: PERRY NEEL pneel@hilcorp.com T: (907)670-3514

PRUDHOE BAY, AK

F: (907)659-5377

HILCORP NORTHSTAR FACILITY

* - 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)