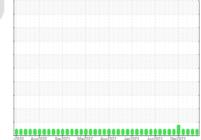


OIL ANALYSIS REPORT

Sample Rating Trend





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

CASTROL PERFECTO XPG 32 (1000 GAL)

Recommendation

Resample at the next service interval to monitor.

Area

All component wear rates are normal.

Contamination

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

Fluid Condition

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

>2020 Aug/2020 Sup-2021 Mar/2022 Aug/2022 Jun/2023 Jun/2023 Dus/2023						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		HLC0003191	HLC0002967	HLC0003186
Sample Date		Client Info		30 Mar 2024	07 Feb 2024	07 Jan 2024
Machine Age	hrs	Client Info		0	0	3592
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	1	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	1	0	0
Chromium	ppm	ASTM D5185m	>4	<1	0	0
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	1	0	0
Lead	ppm	ASTM D5185m		2	0	<1
Copper	ppm	ASTM D5185m		<1	0	0
Tin	ppm	ASTM D5185m	>5	1	2	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	<1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	0	<1	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m	0	<1	0	0
Calcium	ppm	ASTM D5185m ASTM D5185m		6	0	2
Phosphorus Zinc	ppm	ASTM D5185m	25 0	12 2	0	0
Sulfur	ppm ppm	ASTM D5185m	1500	279	157	289
CONTAMINANTS	• •		limit/base			
Silicon		method ASTM D5185m		current	history1 <1	history2 2
Sodium	ppm	ASTM D5185m	>10	21	19	17
Potassium	ppm	ASTM D5185m	>20	1	0	0
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647		95	210	286
Particles >6µm		ASTM D7647	>1300	18	84	73
Particles >14µm		ASTM D7647	>160	3	17	13
Particles >21µm		ASTM D7647	>40	1	5	5
Particles >38μm		ASTM D7647	>10	0	1	0
Particles >71μm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/17/14	14/11/9	15/14/11	15/13/11
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

Acid Number (AN)

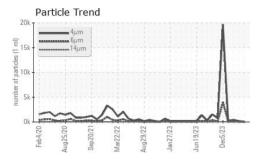
mg KOH/g ASTM D8045 0.05

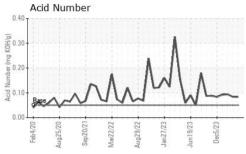
0.084

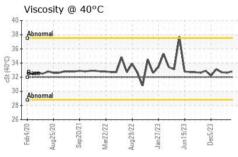
0.094 Contact/Location: PERRY NEEL - BPENOR

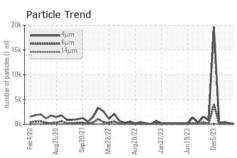


OIL ANALYSIS REPORT







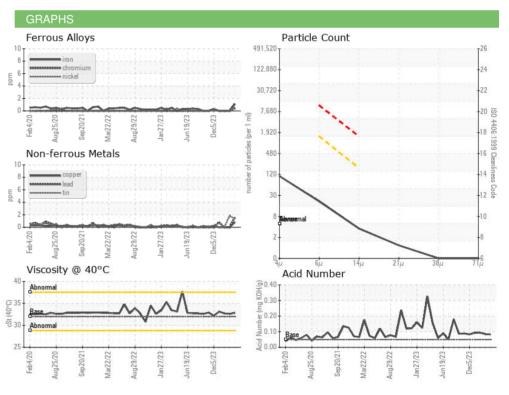


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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
FLUID PROPERT	TIES	method	limit/base	current	history1	history2

I LOID I HOI LITT	ILO					
Visc @ 40°C	cSt	ASTM D445	32.0	32.8	32.6	32.7

Or WIT LE HVITTGEO			
Color		A	

Bottom	







Certificate 12367

Laboratory Sample No. Lab Number : 06146560

Test Package : IND 2

: HLC0003191 Unique Number : 10976638

С

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

Received : 11 Apr 2024 **Tested**

: 12 Apr 2024

Diagnosed : 15 Apr 2024 - Angela Borella

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)

Report Id: BPENOR [WUSCAR] 06146560 (Generated: 04/15/2024 18:00:38) Rev: 1

Contact/Location: PERRY NEEL - BPENOR

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Contact: PERRY NEEL

US 99734