PROBLEM SUMMARY

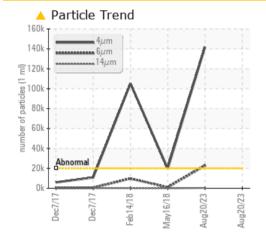
Area STORK HYDROSTATIC Machine Id B21613 (S/N 69700026) Component

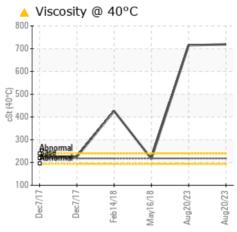
Gearbox Fluid

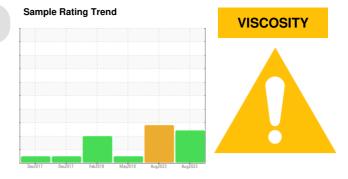
NEAD

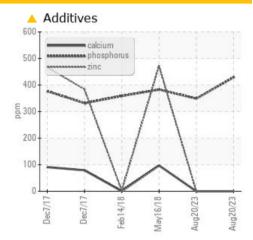
MOBIL DTE OIL BB (6 GAL)

COMPONENT CONDITION SUMMARY









RECOMMENDATION

Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

	-					
Sample Status				ABNORMAL	ABNORMAL	NORMAL
Calcium	ppm	ASTM D5185m		<u> </u>	<u> </u>	97
Zinc	ppm	ASTM D5185m		0	0	472
Particles >4µm		ASTM D7647	>20000	🔺 141827		19756
Particles >6µm		ASTM D7647	>5000	🔺 22676		971
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<u> </u>		21/17/11
Visc @ 40°C	cSt	ASTM D445	218	A 719	A 715	216.0

Customer Id: HORBEL Sample No.: WC0820487 Lab Number: 05929570 Test Package: IND 2



To manage this report scan the QR code

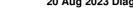
To discuss the diagnosis or test data: Doug Bogart +1 (800)237-1369 x4016 <u>dougb@wearcheckusa.com</u>

To change component or sample information: Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u>

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS



20 Aug 2023 Diag: Jonathan Hester

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.All component wear rates are normal. There is a moderate amount of visible silt present in the sample. The oil viscosity is higher than normal. Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type. The AN level is acceptable for this fluid.

16 May 2018 Diag: Wes Davis

14 Feb 2018 Diag: Jonathan Hester

Resample at the next service interval to monitor.All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

view report





We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. Additive levels indicate the addition of a different brand, or type of oil. Viscosity of sample indicates oil is within ISO 460 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.





OIL ANALYSIS REPORT

Sample Rating Trend

Area STORK HYDROSTATIC Machine Id B21613 (S/N 69700026) Component

Gearbox Fluid

MOBIL DTE OIL BB (6 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

The oil viscosity is higher than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type. The AN level is acceptable for this fluid.

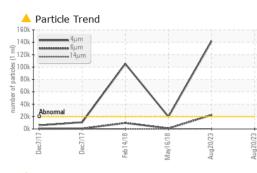
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0820487	WC0820485	WCI2312536
Sample Date		Client Info		20 Aug 2023	20 Aug 2023	16 May 2018
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	4000
Oil Changed		Client Info		N/A	N/A	Not Changd
Sample Status				ABNORMAL	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	9	1	2
Chromium	ppm	ASTM D5185m	>15	0	0	0
Nickel	ppm	ASTM D5185m	>15	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	0	0	0
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m		<1	<1	<1
Tin	ppm	ASTM D5185m		0	0	0
Antimony	ppm	ASTM D5185m				0
Vanadium		ASTM D5185m	>0	 <1	<1	0
	ppm	ASTM D5185m		0	0	0
Cadmium	ppm					-
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	A 28	<1
Barium	ppm	ASTM D5185m		0	0	<1
Molybdenum	ppm	ASTM D5185m		0	0	14
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		<1	0	0
Calcium	ppm	ASTM D5185m		<u> </u>	<u> </u>	97
Phosphorus	ppm	ASTM D5185m		429	349	383
Zinc	ppm	ASTM D5185m		<u> </u>	<u> </u>	472
Sulfur	ppm	ASTM D5185m		5781	10905	7384
CONTAMINANTS	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	1	2	2
Sodium	ppm	ASTM D5185m		<1	<1	0
Potassium	ppm	ASTM D5185m	>20	<1	0	<1
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	41827		19756
Particles >6µm		ASTM D7647	>5000	<u> </u>		971
Particles >14µm		ASTM D7647	>640	286		15
Particles >21µm		ASTM D7647	>160	29		3
Particles >38µm		ASTM D7647	>40	1		0
Particles >71µm		ASTM D7647	>10	0		0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<u> </u>		21/17/11
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.71	0.99	0.796
. ,						

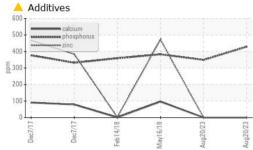


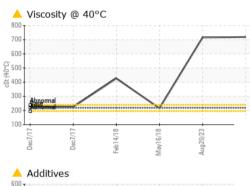
VISCOSITY



OIL ANALYSIS REPORT







500

400

E 300

200

100

1.00

(B/H0)

20.60

ੁੱਛੇ 0.40

Pio 0.20

0.00

lec7/1

0

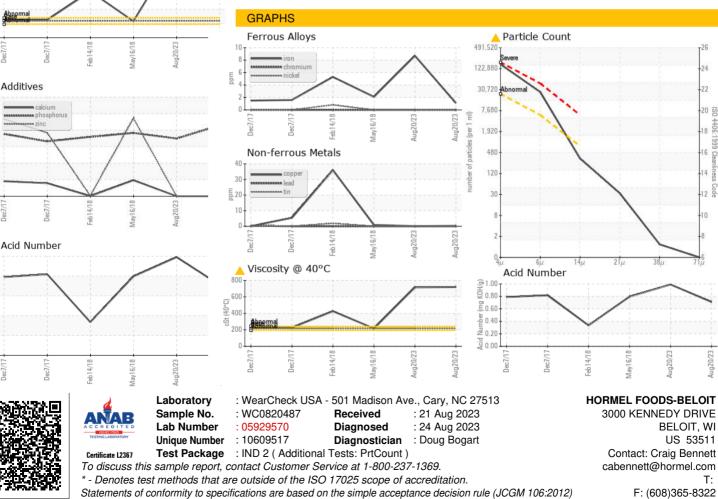
Dec7/1

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	🔺 MODER	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	>0.2	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	218	A 719	A 715	216.0
SAMPLE IMAGES		method	limit/base	current	history1	history2
				- Alexan		

Color



Bottom



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: Craig Bennett - HORBEL