

## **OIL ANALYSIS REPORT**

#### Machine Id **ASRI RIG DURST-001 ASRI RIG DURST-001** Component

Gearbox Fluid

### GEAR OIL SAE 75W90 (2 GAL)

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

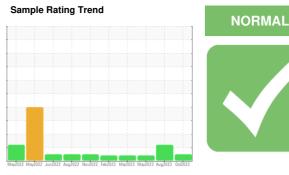
All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

#### Fluid Condition

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

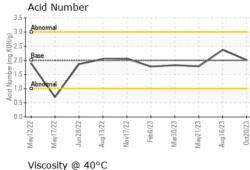


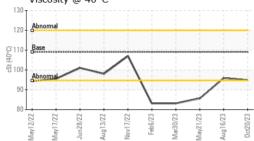
		May2022 May2	022 Jun2022 Aug2022 Nov2	022 Feb2023 Mar2023 May2023 Aug2	023 Oct2023	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		HLC0002550	HLC0002286	HLC0001920
Sample Date		Client Info		20 Oct 2023	16 Aug 2023	21 May 2023
Machine Age	hrs	Client Info		24030	22620	20773
Oil Age	hrs	Client Info		1400	350	1000
Oil Changed		Client Info		Changed	Not Changd	N/A
Sample Status				NORMAL	ABNORMAL	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	25	12	35
Chromium	ppm	ASTM D5185m	>15	0	<1	<1
Nickel	ppm	ASTM D5185m	>15	0	<1	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	0	0	<1
Lead	ppm	ASTM D5185m	>100	0	<1	0
Copper	ppm	ASTM D5185m	>200	<1	<1	0
Tin	ppm	ASTM D5185m	>25	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	400	209	298	247
Barium	ppm	ASTM D5185m	200	0	0	0
Molybdenum	ppm	ASTM D5185m	12	0	0	0
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	12	0	0	<1
Calcium	ppm	ASTM D5185m	150	5	6	15
Phosphorus	ppm	ASTM D5185m	1650	1298	1438	1282
Zinc	ppm	ASTM D5185m	125	2	5	<1
Sulfur	ppm	ASTM D5185m	22500	21104	26411	26084
CONTAMINANTS	5	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	8	12	17
Sodium	ppm	ASTM D5185m		3	4	4
Potassium	ppm	ASTM D5185m	>20	<1	0	2
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000		▲ 72565	
Particles >6um		ASTM D7647	>5000		A 11759	

FLUID CLEANLINE	-55	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000		A 72565	
Particles >6µm		ASTM D7647	>5000		<b>1</b> 1759	
Particles >14µm		ASTM D7647	>640		301	
Particles >21µm		ASTM D7647	>160		69	
Particles >38µm		ASTM D7647	>40		2	
Particles >71µm		ASTM D7647	>10		0	
Oil Cleanliness		ISO 4406 (c)	>21/19/16		▲ 23/21/15	
FLUID DEGRADAT	ΓΙΟΝ	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	2.00	2.01	2.37	1.79

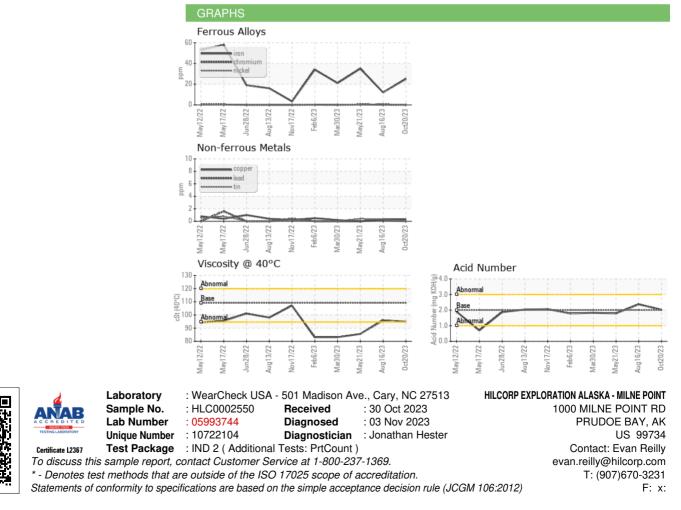


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
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	109	94.9	95.9	▲ 85.6
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
Color						
Bottom						



Contact/Location: Evan Reilly - BPEMPU