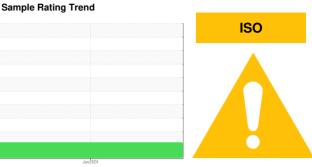


# **OIL ANALYSIS REPORT**



Machine Id

# **NORRIS A-3**

Component Hydraulic System

**BELRAY AW 100 (--- GAL)** 

## **DIAGNOSIS**

### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

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

				Jun 2024		
				Jun2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO20000256		
Sample Date		Client Info		09 Jun 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed	1110	Client Info		N/A		
Sample Status				ABNORMAL		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0		
Chromium	ppm	ASTM D5185m	>20	0		
Nickel	ppm	ASTM D5185m	>20	<1		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>20	<1		
Lead	ppm	ASTM D5185m	>20	0		
Copper	ppm	ASTM D5185m	>20	5		
Tin	ppm	ASTM D5185m	>20	0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<1		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		2		
Calcium	ppm	ASTM D5185m		53		
Phosphorus	ppm	ASTM D5185m		274		
Zinc	ppm	ASTM D5185m		322		
Sulfur	ppm	ASTM D5185m		1033		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1		
Sodium	ppm	ASTM D5185m		1		
Potassium	ppm	ASTM D5185m	>20	2		
Water	%	ASTM D6304	>0.05	0.002		
ppm Water	ppm	ASTM D6304	>500	19		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<u> </u>		
Particles >6µm		ASTM D7647	>1300	<u> </u>		
Particles >14μm		ASTM D7647	>160	22		
Particles >21µm		ASTM D7647	>40	4		
Particles >38μm		ASTM D7647	>10	0		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>^</u> 21/18/12		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (ANI)	ma 1/011/a	ACTM DOOM		0.00		

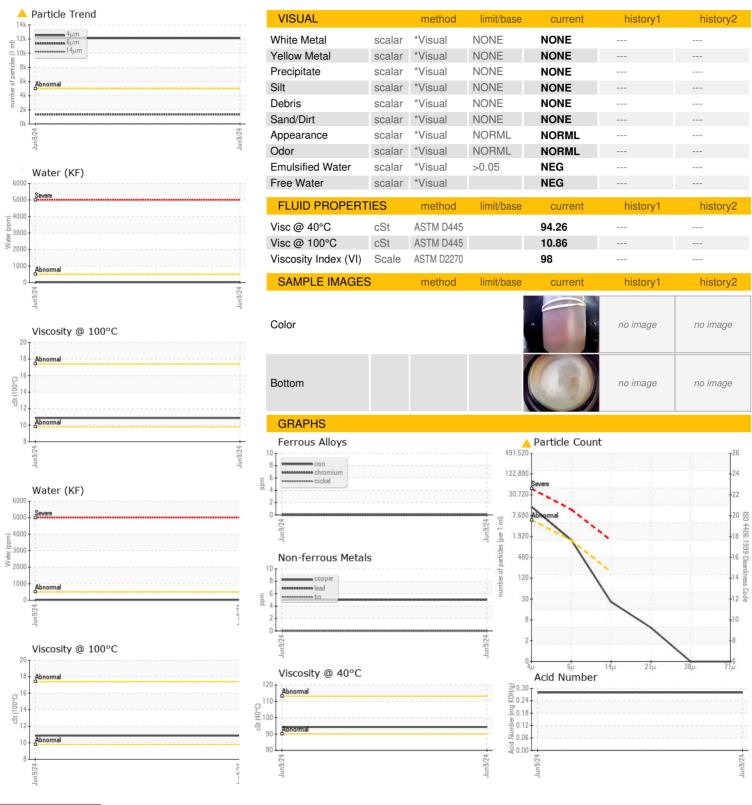
Acid Number (AN)

mg KOH/g ASTM D8045

0.28



# **OIL ANALYSIS REPORT**





Certificate 12367

Laboratory Sample No.

Lab Number

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : TO20000256 : 06219239 Unique Number : 11097436

**Tested** : 26 Jun 2024 Diagnosed : 26 Jun 2024 - Jonathan Hester

Received

Test Package : IND 2 (Additional Tests: KF, KV100, VI) To discuss this sample report, contact Customer Service at 1-800-237-1369.

 $^st$  - 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)

**VELVIN OIL COMPANY** P.O. BOX 993

HENDERSON, TX US 75653 Contact: AARON NILSSON awn.nilsson@icloud.com

T: (903)807-9576

: 24 Jun 2024

Report Id: VELHEN [WUSCAR] 06219239 (Generated: 06/26/2024 15:09:04) Rev: 1

Contact/Location: AARON NILSSON - VELHEN