

## **OIL ANALYSIS REPORT**

# Martinsville [Martinsville] Hydraulic - Flanking

Component **Hydraulic System** 

AW HYDRAULIC OIL ISO 46 (35 GAL)

#### Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

#### Wear

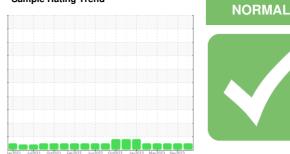
All component wear rates are normal.

### Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable.

### Fluid Condition

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





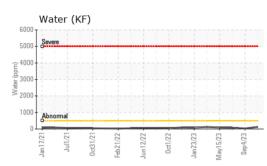
Sample Rating Trend

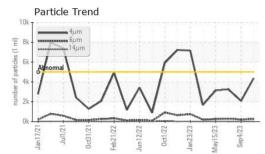
SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0805437	WC0769082	WC0769445
Sample Date		Client Info		29 Oct 2023	04 Sep 2023	10 Jul 2023
Machine Age	hrs	Client Info		411911	10480	411911
Oil Age	hrs	Client Info		9170	8410	7341
Oil Changed		Client Info		Filtered	Filtered	N/A
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	2	5	4
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	<1	<1
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	21	21	19
Tin	ppm	ASTM D5185m	>20	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	0	0	0
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	5	0	<1	<1
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	25	<1	8	6
Calcium	ppm	ASTM D5185m	200	64	89	79
Phosphorus	ppm	ASTM D5185m	300	231	272	276
Zinc	ppm	ASTM D5185m	370	239	272	284
Sulfur	ppm	ASTM D5185m	2500	1065	1512	1534
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	0	<1	0
Sodium	ppm	ASTM D5185m		2	1	3
Potassium	ppm	ASTM D5185m	>20	0	0	0
Water	%	ASTM D6304	>0.05	0.011	0.003	0.007
ppm Water	ppm	ASTM D6304	>500	118.9	34.5	75.4
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	4363	2078	3261
Particles >6µm		ASTM D7647	>1300	264	206	290
Particles >14µm		ASTM D7647	>160	15	6	12
Particles >21µm		ASTM D7647	>40	6	2	3
Particles >38µm		ASTM D7647	>10	0	1	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	19/15/11	18/15/10	19/15/11
FLUID DEGRADATION method limit/base current history1 histor						history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.22	0.21	0.23

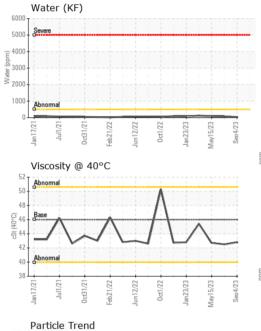
Submitted By: M/V MARTINSVILLE

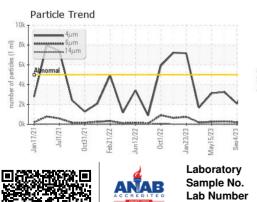


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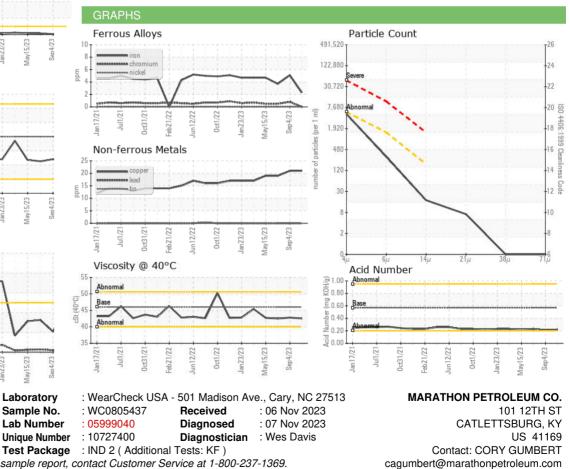


Certificate L2367

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	>0.05	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	46	42.5	42.8	42.5
SAMPLE IMAGES	\$	method	limit/base	current	history1	history2
Color						



Bottom



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

 \* - 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)

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