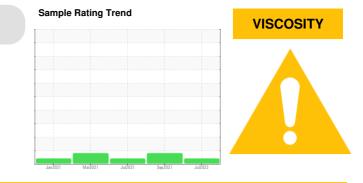


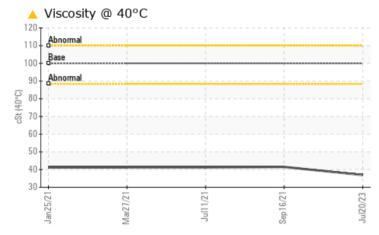
PROBLEM SUMMARY



Canton Machine Id [Canton] Hydraulic - Steering

Hydraulic System Fluid R&O OIL ISO 100 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

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

PROBLEMATIC TEST RESULTS								
Sample Status				ATTENTION	ABNORMAL	ATTENTION		
Visc @ 40°C	cSt	ASTM D445	100	A 36.9	4 1.5	4 1.2		

Customer Id: MARCAT Sample No.: WC0769244 Lab Number: 05966288 Test Package: IND 2

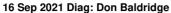


To manage this report scan the QR code

To discuss the diagnosis or test data: Don Baldridge +1 <u>don.b505@comcast.net</u>

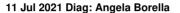
To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS





No corrective action is recommended at this time. The filter change at the time of sampling has been noted. 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. Moderate concentration of visible dirt/debris present in the oil. Viscosity of sample indicates oil is within ISO 46 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.



27 Mar 2021 Diag: Jonathan Hester

No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. Viscosity of sample indicates oil is within ISO 46 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.



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We recommend you service the filters on this component. 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. Moderate concentration of visible dirt/debris present in the oil. Viscosity of sample indicates oil is within ISO 46 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.



Report Id: MARCAT [WUSCAR] 05966288 (Generated: 10/04/2023 07:47:43) Rev: 1



OIL ANALYSIS REPORT

Sample Rating Trend

VISCOSITY

Canton Machine Id [Canton] Hydraulic - Steering

Component Hydraulic System Fluid R&O OIL ISO 100 (--- GAL)

DIAGNOSIS

A Recommendation

No corrective action is recommended at this time. 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. The amount and size of particulates present in the system are acceptable.

Fluid Condition

The oil viscosity is lower than normal. Confirm oil type. The AN level is acceptable for this fluid.

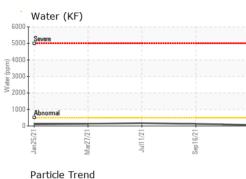
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0769244	WC0601904	RP0020083
Sample Date		Client Info		20 Jul 2023	16 Sep 2021	11 Jul 2021
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Not Changd	N/A
Sample Status				ATTENTION	ABNORMAL	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	4	7	7
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>20	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	<1	<1
Lead	ppm	ASTM D5185m	>20	0	0	2
Copper	ppm	ASTM D5185m	>20	<1	<1	<1
Tin	ppm	ASTM D5185m		0	0	0
Antimony	ppm	ASTM D5185m			0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	0	<1	2
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	5	<1	<1	1
Manganese	ppm	ASTM D5185m	Ū	0	<1	<1
Magnesium	ppm	ASTM D5185m	5	11	9	8
Calcium	ppm	ASTM D5185m		20	14	15
Phosphorus	ppm	ASTM D5185m	100	136	201	197
Zinc	ppm	ASTM D5185m	25	127	173	165
Sulfur	ppm	ASTM D5185m	1500	2268	2982	3318
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	2	<1	2
Sodium	ppm	ASTM D5185m		4	4	4
Potassium	ppm	ASTM D5185m	>20	<1	0	10
Water	%	ASTM D6304		0.006	0.012	0.017
ppm Water	ppm	ASTM D6304	>500	64.0	127.1	170.0
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	506		2853
Particles >6µm		ASTM D7647	>1300	130		640
Particles >14µm		ASTM D7647	>160	13		50
Particles >21µm		ASTM D7647	>40	5		14
Particles >38µm		ASTM D7647	>10	1		0
Particles >71µm		ASTM D7647		0		0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	16/14/11		19/16/13
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.08	0.26	0.413	0.374
:47:44) Rev: 1					Submitted B	y: M/V CANTO

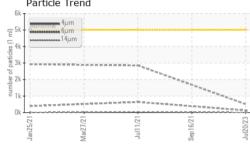


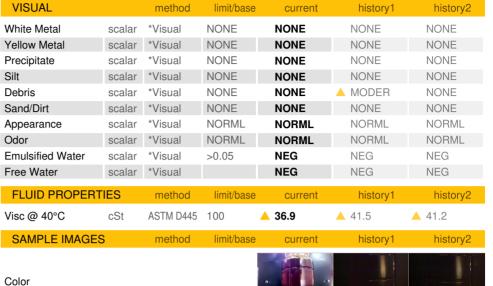
Acid Number

0.50

OIL ANALYSIS REPORT









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