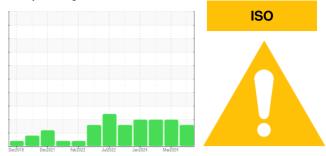


OIL ANALYSIS REPORT

SAMPLE INFORMATION method

Sample Rating Trend

limit/base



current

history1

history2

Machine Id

TR-3 Component Hydraulic System Fluid

{not provided} (--- GAL)

DIAGNOSIS

A Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil.

Fluid Condition

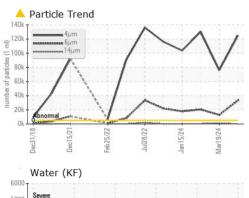
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

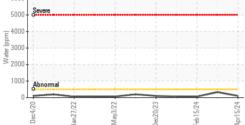
SAWFLE INFUN		method	IIIII/Dase	current	TISIOTY I	TIIStoryz
Sample Number		Client Info		WC06152003	WC06124929	WC06093614
Sample Date		Client Info		15 Apr 2024	19 Mar 2024	15 Feb 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
	0000	ASTM D5185m		2	13	<1
Iron Chromium	ppm	ASTM D5185m		0	<1	0
Nickel	ppm	ASTM D5185m	>20	0		<1
	ppm	ASTM D5185m	>20	14	0	13
Titanium Silver	ppm				0	0
	ppm	ASTM D5185m	00	0		
Aluminum	ppm	ASTM D5185m		-	0	<1
Lead	ppm	ASTM D5185m	>20	0	0	<1
Copper	ppm	ASTM D5185m		2	4	3
Tin	ppm	ASTM D5185m	>20	0	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		8	2	6
Molybdenum	ppm	ASTM D5185m		0	<1	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		<1	0	1
Calcium	ppm	ASTM D5185m		19	11	15
Phosphorus	ppm	ASTM D5185m		236	250	260
Zinc	ppm	ASTM D5185m		2	0	2
Sulfur	ppm	ASTM D5185m		3854	4341	3512
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	<1	<1
Sodium	ppm	ASTM D5185m		3	2	3
Potassium	ppm	ASTM D5185m	>20	1	0	2
Water	%	ASTM D6304	>0.05	0.010	0.032	0.005
ppm Water	ppm	ASTM D6304	>500	103	329	59
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	A 125196	▲ 76115	▲ 130452
Particles >6µm		ASTM D7647	>1300	<u> </u>	1 2787	2 0481
Particles >14µm		ASTM D7647	>160	<u> </u>	A 879	3 62
Particles >21µm		ASTM D7647	>40	25	<u> </u>	<u> </u>
Particles >38µm		ASTM D7647	>10	1	3	3
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	A 24/22/15	2 3/21/17	▲ 24/22/16
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.77	0.80	0.74
	mynonry			.	0.00	0.7 T

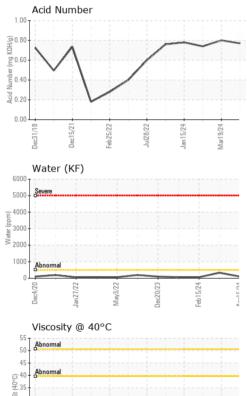
Contact/Location: CHRIS BARNES - METYOU Page 1 of 2



OIL ANALYSIS REPORT



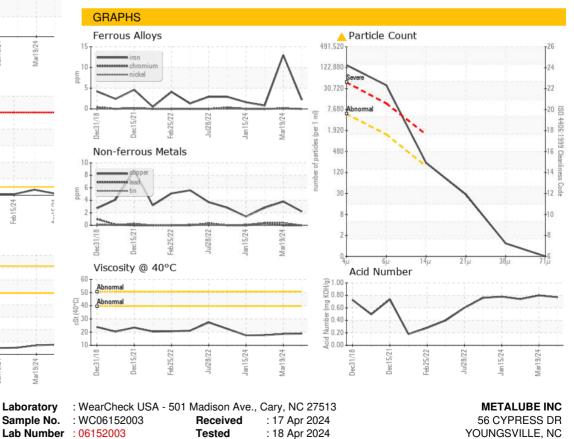




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	5/21	5/22	8/22	5/24	9/24
	lec3	eb2	Jul2	an	ar

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	LIGHT	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		18.9	18.6	17.7
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
Color						

Bottom



: 19 Apr 2024 - Don Baldridge



* - 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)

Diagnosed

T: (919)554-3024 F: (919)554-3023

Contact: CHRIS BARNES

cbarnes@metalubeinc.com

Report Id: METYOU [WUSCAR] 06152003 (Generated: 04/20/2024 10:00:31) Rev: 1

Certificate 12367

Laboratory

Unique Number : 10982081

Test Package : IND 2 (Additional Tests: KF)

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

Contact/Location: CHRIS BARNES - METYOU

Page 2 of 2

US 27596