

PROBLEM SUMMARY

Oil Cleanliness

Sample Rating Trend



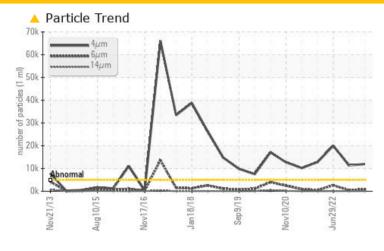
HITACHI 001543

Component

Hydraulic System

TDH FLUID SAE 75W80 (51 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TE	ST RESULTS				
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL
Particles >4μm	ASTM D7647	>5000	11974	▲ 11338	△ 19993

ISO 4406 (c) >19/17/14 **21/17/12**

Customer Id: CJMHAM Sample No.: WC0823959 Lab Number: 05997322 Test Package: CONST

To manage this report scan the QR code

To discuss the diagnosis or test data:

Don Baldridge +1 don.b505@comcast.net

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Fluid			?	Oil and filter change at the time of sampling has been noted.
Change Filter			?	Oil and filter change at the time of sampling has been noted.

HISTORICAL DIAGNOSIS

08 Feb 2023 Diag: Don Baldridge





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. All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.



29 Jun 2022 Diag: Doug Bogart





No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

view report

05 Jan 2022 Diag: Don Baldridge



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. All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.





OIL ANALYSIS REPORT

ISO

HITACHI 001543

Component

Hydraulic System

TDH FLUID SAE 75W80 (51 GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

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

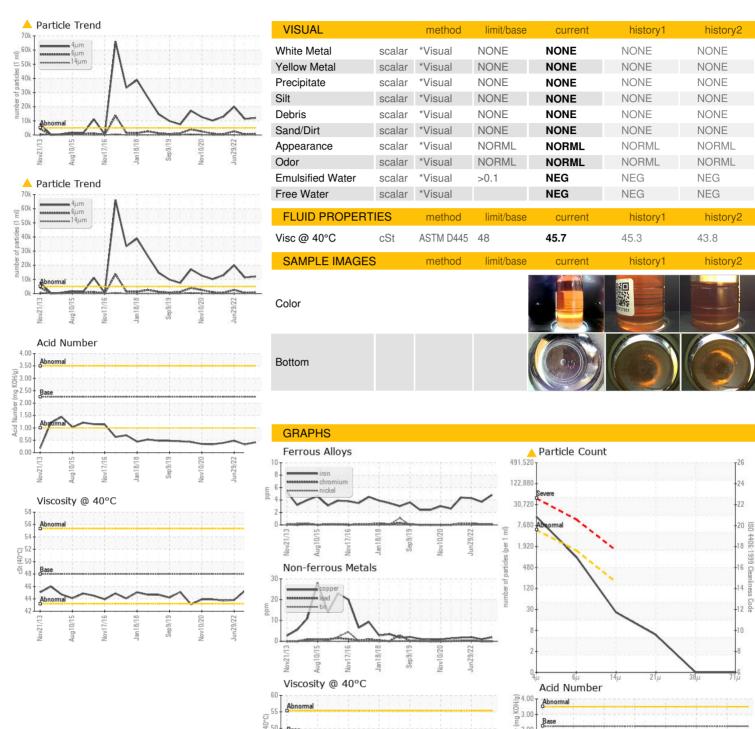
The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

SIS REPORT	San	nple R	Rating Trend					
SIS IILI OIII								
	ov2013	Aug2015	Nov2016	Jan 2018	Sep2019	Nov2020	Jun2022	
SAMPLE INFORMATION	method		imit/ba			rrent		his

Sample Number		Client Info		WC0823959	WC0757981	WC0664824
Sample Date		Client Info		25 Oct 2023	08 Feb 2023	29 Jun 2022
Machine Age	hrs	Client Info		11326	10752	10102
Oil Age	hrs	Client Info		1500	650	1500
Oil Changed		Client Info		Changed	Not Changd	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	5	4	4
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>10	<1	<1	2
Lead	ppm	ASTM D5185m	>10	0	0	<1
Copper	ppm	ASTM D5185m	>75	2	1	2
Tin	ppm	ASTM D5185m	>10	0	0	<1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	10	4	4	3
Barium	ppm	ASTM D5185m	10	0	0	2
Molybdenum	ppm	ASTM D5185m	10	3	2	2
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	100	46	39	18
Calcium	ppm	ASTM D5185m	3500	515	483	192
Phosphorus	ppm	ASTM D5185m	1150	365	378	342
Zinc	ppm	ASTM D5185m	1150	488	437	396
Sulfur	ppm	ASTM D5185m	5000	1559	1486	1339
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	2	2	2
Sodium	ppm	ASTM D5185m		0	<1	0
Potassium	ppm	ASTM D5185m	>20	2	0	<1
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<u> </u>	<u> </u>	▲ 19993
Particles >6μm		ASTM D7647	>1300	849	447	<u>^</u> 2604
Particles >14µm		ASTM D7647	>160	22	33	46
Particles >21µm		ASTM D7647	>40	5	13	6
Particles >38µm		ASTM D7647	>10	0	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u> </u>	<u>\$\lambda\$\$ 21/16/12</u>	<u>\$\text{\Delta}\$ 21/19/13</u>
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	2.25	0.42	0.33	0.48



OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No.

Lab Number **Unique Number**

40

: WearCheck USA -501 Madison Ave., Cary, NC 27513 : 02 Nov 2023 : WC0823959 Received : 05997322 Diagnosed : 05 Nov 2023 : 10725682 Diagnostician : Don Baldridge

2.00

Test Package : CONST

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