

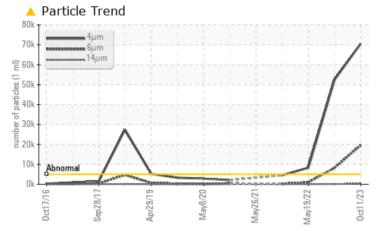
PROBLEM SUMMARY

HITACHI 135 HCMDAF60P00100353

Hydraulic System

HITACHI HYDRAULIC SUPER EX 46HN (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

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.

PROBLEMATIC TEST RESULTS NORMAL Sample Status ABNORMAL ABNORMAL Particles >4µm ASTM D7647 >5000 70504 ▲ 52537 8314 · 🔺 Particles >6µm ASTM D7647 >1300 **19594** A 8178 988 Particles >14µm ASTM D7647 >160 299 123 22 **Oil Cleanliness** ISO 4406 (c) >19/17/14 **A 23/21/15** ▲ 23/20/14 20/17/12

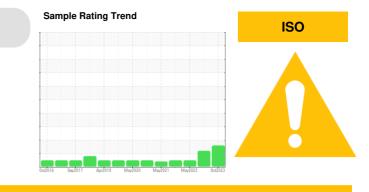
Customer Id: JAMASH Sample No.: JR0179279 Lab Number: 05978190 Test Package: CONST



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



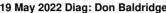
RECOMMENDED ACTIONS

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.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 suitable for further service.





19 May 2022 Diag: Don Baldridge

Resample at the next service interval to monitor.All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





11 Nov 2021 Diag: Don Baldridge

Resample at the next service interval to monitor.All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





view report



OIL ANALYSIS REPORT

HITACHI 135 HCMDAF60P00100353

Hydraulic System

HITACHI HYDRAULIC SUPER EX 46HN (--- GAL)

DIAGNOSIS

Recommendation

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.

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.

0100355						
GAL)		Oct2016	Sep2017 Apr2019	May2020 May2021 May2022	2 Oct2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		JR0179279	JR0164377	JR0124343
Sample Date		Client Info		11 Oct 2023	05 Apr 2023	19 May 2022
lachine Age	hrs	Client Info		6959	6497	5959
Dil Age	hrs	Client Info		0	0	2000
Dil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
ŶQ		ASTM D8184		17	21	21
ron	ppm	ASTM D5185m	>20	30	31	24
Chromium	ppm	ASTM D5185m	>10	4	5	3
lickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	4	4	3
ead	ppm	ASTM D5185m	>10	0	0	<1
Copper	ppm	ASTM D5185m	>75	3	3	3
in	ppm	ASTM D5185m	>10	0	0	0
ntimony	ppm	ASTM D5185m				
/anadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		5	7	14
Barium	ppm	ASTM D5185m		1	0	0
/lolybdenum	ppm	ASTM D5185m		11	11	11
Manganese	ppm	ASTM D5185m		0	<1	<1
<i>I</i> agnesium	ppm	ASTM D5185m		37	37	41
Calcium	ppm	ASTM D5185m		105	85	88
hosphorus	ppm	ASTM D5185m	827	455	489	483
Zinc	ppm	ASTM D5185m	0	215	193	191
Sulfur	ppm	ASTM D5185m	13	453	523	360
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	9	8	6
Sodium	ppm	ASTM D5185m		3	2	0
Potassium	ppm	ASTM D5185m	>20	0	<1	2
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<u> </u>	▲ 52537	8314
Particles >6µm		ASTM D7647	>1300	<u> </u>	A 8178	988
Particles >14µm		ASTM D7647	>160	<u> </u>	123	22
Particles >21µm		ASTM D7647	>40	26	10	3
Particles >38µm		ASTM D7647	>10	1	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Dil Cleanliness		ISO 4406 (c)	>19/17/14	A 23/21/15	▲ 23/20/14	20/17/12
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.06	0.32	0.25	0.39

Sample Rating Trend

ISO

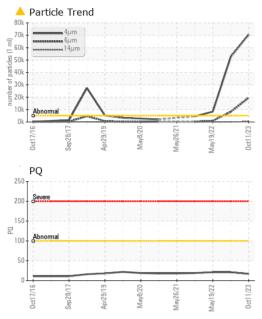
Contact/Location: DAVID ZIEG - JAMASH



Acid Number

0 40

OIL ANALYSIS REPORT



VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT	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	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	47	46.0	45.6	54.4
SAMPLE IMAGES		method	limit/base	current	history1	history2
				et-		

Color



Bottom

