



WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

Machine Id
120FI (S/N 18100800)

Component
Front Hydraulic System

Fluid
HITACHI HYDRAULIC SUPER EX 46HN (40 GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: Resample 6-12-24)

WEAR

All component wear rates are normal.

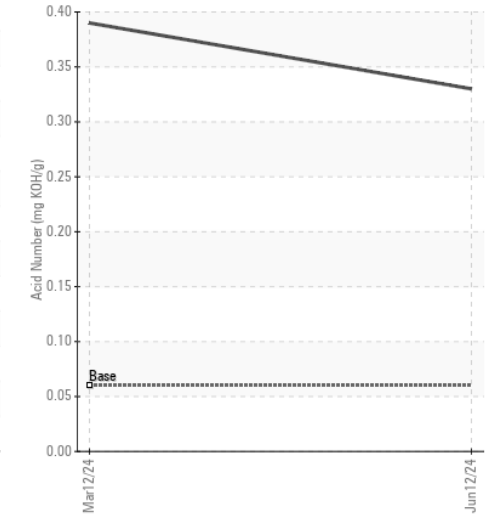
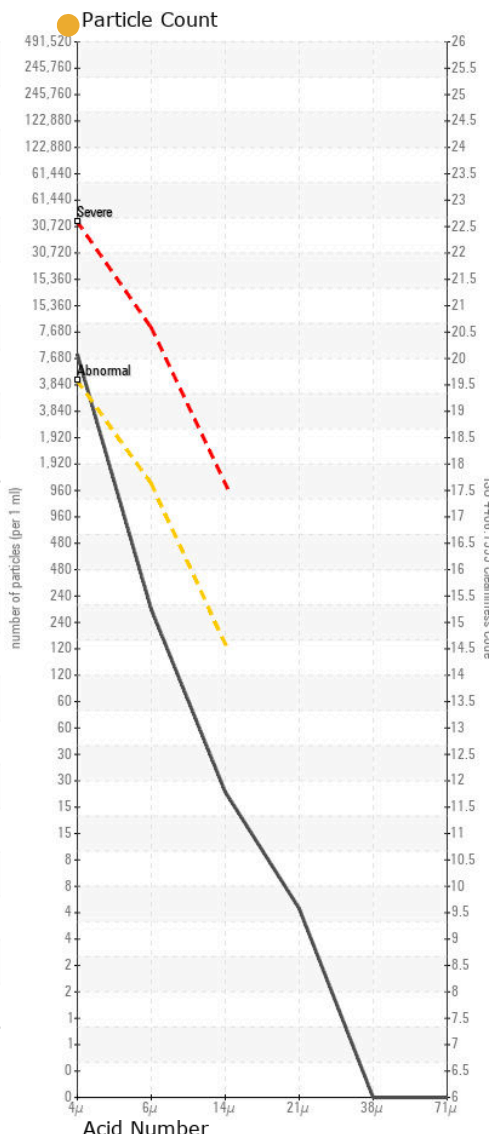
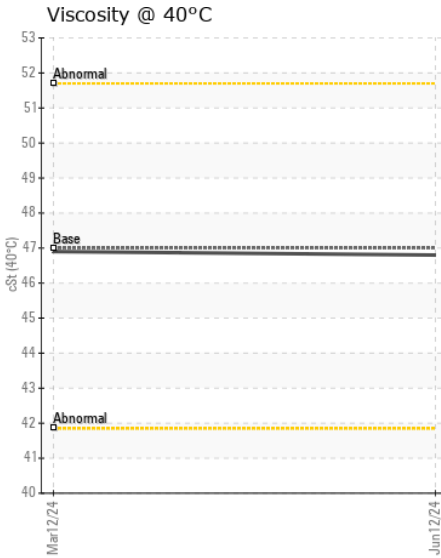
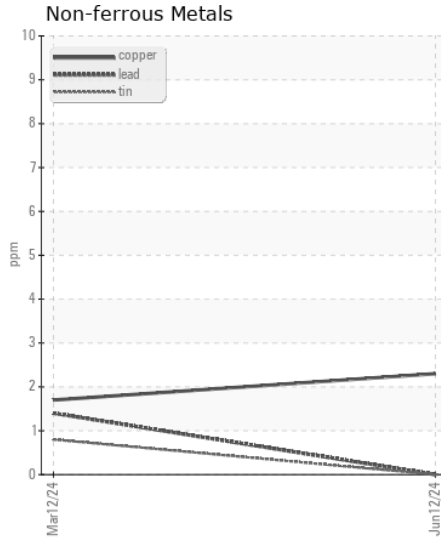
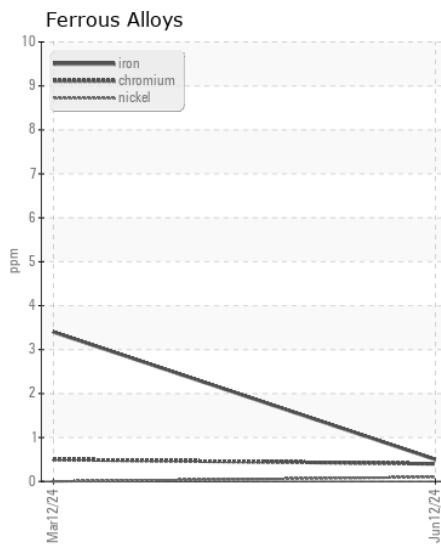
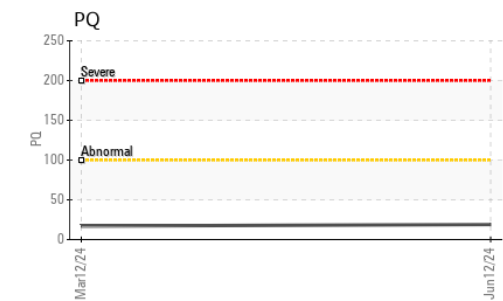
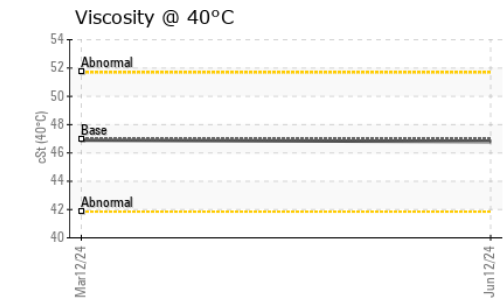
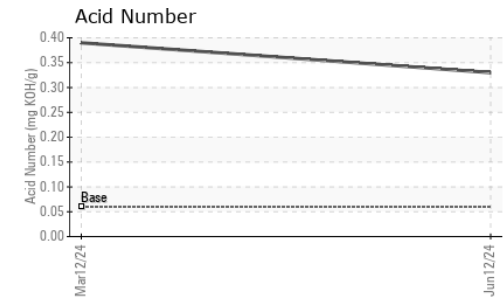
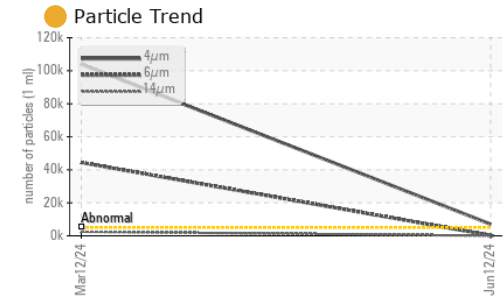
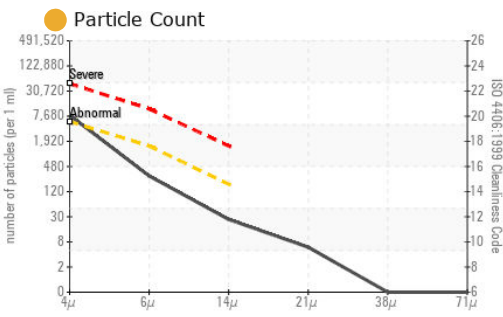
CONTAMINATION

There is a moderate 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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0220351	JR0205681	---
Sample Date		Client Info		12 Jun 2024	12 Mar 2024	---
Machine Age	hrs	Client Info		2748	2536	---
Oil Age	hrs	Client Info		2748	2536	---
Filter Age	hrs	Client Info		2748	0	---
Oil Changed		Client Info		N/A	Not Changd	---
Filter Changed		Client Info		N/A	Changed	---
Sample Status				ATTENTION	ABNORMAL	---
PQ		ASTM D8184		19	17	---
Iron	ppm	ASTM D5185m	>20	<1	3	---
Chromium	ppm	ASTM D5185m	>10	<1	<1	---
Nickel	ppm	ASTM D5185m	>10	<1	0	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m		0	<1	---
Aluminum	ppm	ASTM D5185m	>10	1	2	---
Lead	ppm	ASTM D5185m	>10	0	1	---
Copper	ppm	ASTM D5185m	>75	2	2	---
Tin	ppm	ASTM D5185m	>10	0	<1	---
Vanadium	ppm	ASTM D5185m		0	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>20	2	3	---
Potassium	ppm	ASTM D5185m	>20	2	2	---
Water		WC Method	>0.1	NEG	NEG	---
Particles >4µm		ASTM D7647	>5000	7067	▲ 103945	---
Particles >6µm		ASTM D7647	>1300	251	▲ 44400	---
Particles >14µm		ASTM D7647	>160	23	▲ 2468	---
Particles >21µm		ASTM D7647	>40	5	▲ 307	---
Particles >38µm		ASTM D7647	>10	0	4	---
Particles >71µm		ASTM D7647	>3	0	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	20/15/12	▲ 24/23/18	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	---
Sodium	ppm	ASTM D5185m		3	2	---
Boron	ppm	ASTM D5185m		2	2	---
Barium	ppm	ASTM D5185m		0	<1	---
Molybdenum	ppm	ASTM D5185m		2	3	---
Manganese	ppm	ASTM D5185m		<1	<1	---
Magnesium	ppm	ASTM D5185m		13	9	---
Calcium	ppm	ASTM D5185m		192	135	---
Phosphorus	ppm	ASTM D5185m	827	324	330	---
Zinc	ppm	ASTM D5185m	0	258	226	---
Sulfur	ppm	ASTM D5185m	13	1069	1050	---
Acid Number (AN)	mg KOH/g	ASTM D8045	0.06	0.33	0.39	---
Visc @ 40°C	cSt	ASTM D445	47	46.8	46.9	---



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0220351 **Received** : 14 Jun 2024
Lab Number : 06209968 **Tested** : 17 Jun 2024
Unique Number : 11082832 **Diagnosed** : 17 Jun 2024 - Angela Borella
Test Package : CONST (Additional Tests: PQ)

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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)