



WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
[W67089]

Machine Id
HITACHI 250LC 1FFDC270VKF440229

Component
Hydraulic System

Fluid
HITACHI HYDRAULIC SUPER EX 46HN (20 GAL)

RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor. (Customer Sample Comment: W67089)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0215581	JR0178164	JR05836502
Sample Date		Client Info		28 May 2024	07 Sep 2023	02 May 2023
Machine Age	hrs	Client Info		6448	6010	5466
Oil Age	hrs	Client Info		438	544	500
Filter Age	hrs	Client Info		0	544	500
Oil Changed		Client Info		Not Chngd	Not Chngd	Changed
Filter Changed		Client Info		Not Chngd	Changed	Changed
Sample Status				ABNORMAL	ATTENTION	SEVERE

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
Iron	ppm	ASTM D5185m	>20	10	7	2
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m	>10	<1	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	4	<1	<1
Lead	ppm	ASTM D5185m	>10	<1	<1	0
Copper	ppm	ASTM D5185m	>75	6	6	2
Tin	ppm	ASTM D5185m	>10	1	<1	0
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

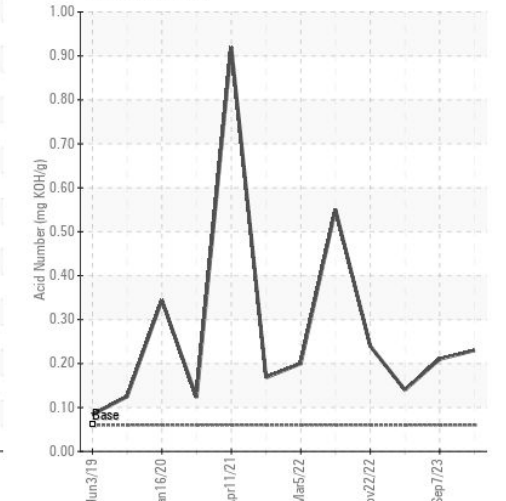
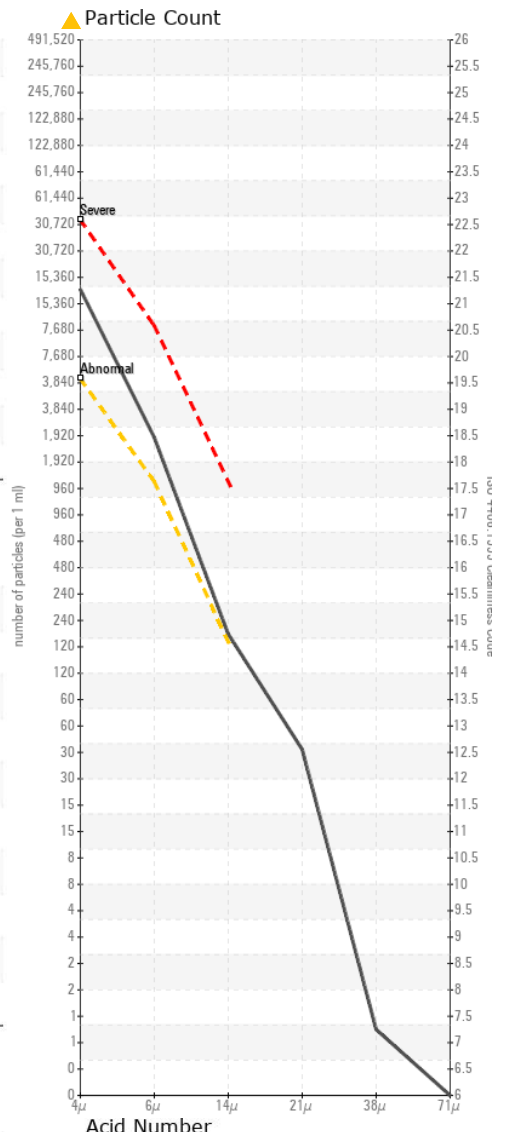
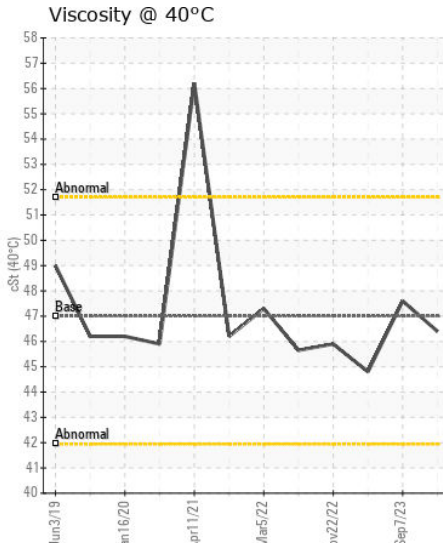
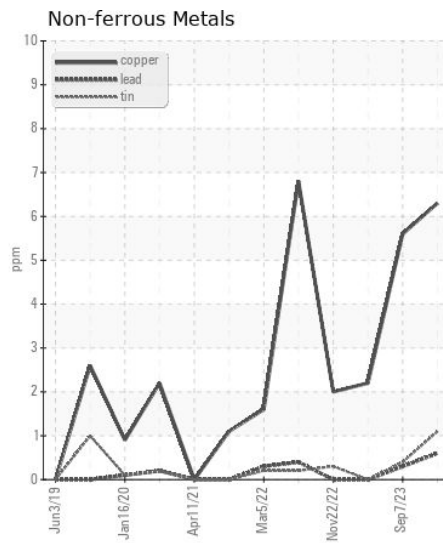
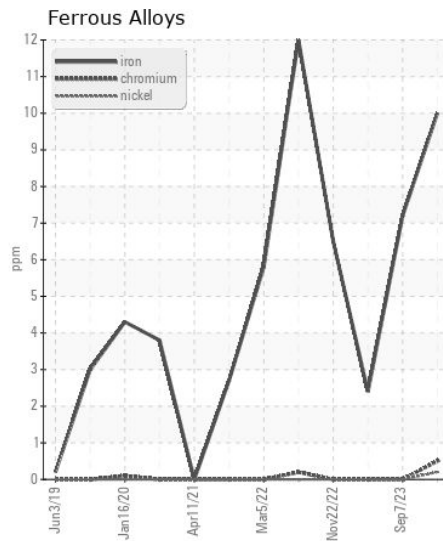
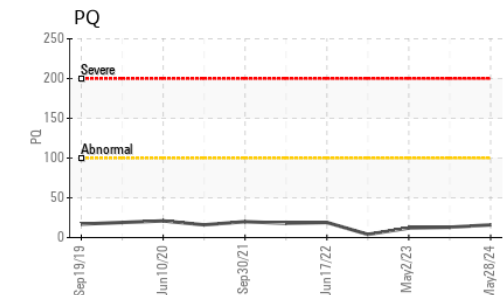
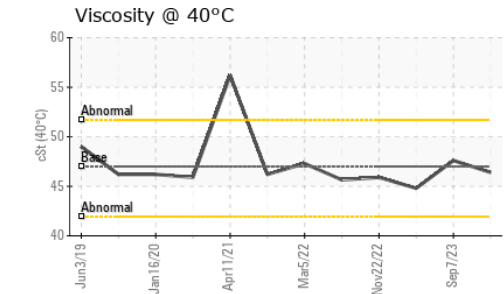
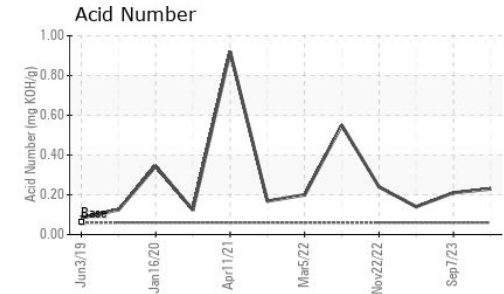
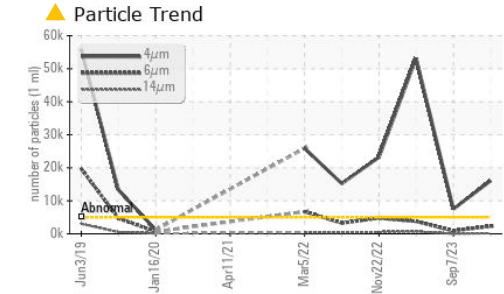
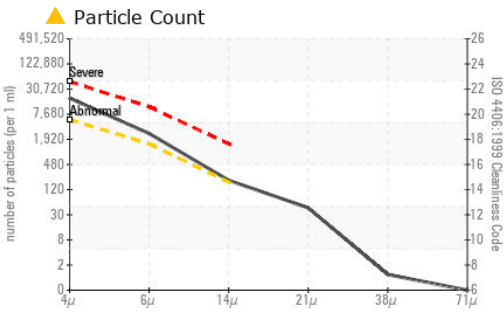
There is a high amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>20	3	2	0
Potassium	ppm	ASTM D5185m	>20	<1	1	0
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	▲ 16094	● 7484	▲ 53194
Particles >6µm		ASTM D7647	>1300	▲ 2316	904	▲ 3779
Particles >14µm		ASTM D7647	>160	▲ 177	29	▲ 672
Particles >21µm		ASTM D7647	>40	39	4	▲ 164
Particles >38µm		ASTM D7647	>10	1	0	6
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 21/18/15	● 20/17/12	▲ 23/19/17
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

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oils additive package is suitable for further service.

Sodium	ppm	ASTM D5185m		0	1	0
Boron	ppm	ASTM D5185m		<1	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		4	4	0
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m		12	6	0
Calcium	ppm	ASTM D5185m		25	17	0
Phosphorus	ppm	ASTM D5185m	827	597	538	329
Zinc	ppm	ASTM D5185m	0	37	8	16
Sulfur	ppm	ASTM D5185m	13	74	75	2145
Acid Number (AN)	mg KOH/g	ASTM D8045	0.06	0.23	0.21	0.14
Visc @ 40°C	cSt	ASTM D445	47	46.4	47.6	44.8



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0215581 **Received** : 30 May 2024
Lab Number : 06195312 **Tested** : 03 Jun 2024
Unique Number : 11057435 **Diagnosed** : 03 Jun 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ, PrtCount)

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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