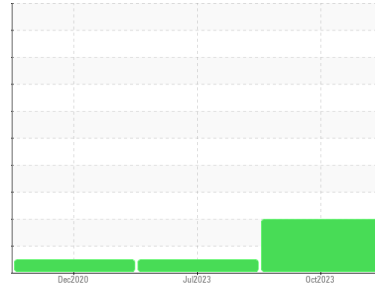


Area
ALAIN FORTIER [6100205943]
Machine Id
HITACHI IFFDBD70AHE530107
Component
Hydraulic System
Fluid
HITACHI HYDRAULIC SUPER EX 46HN (--- GAL)



DIAGNOSIS

Recommendation

Nous avons pris note que la vidange d'huile a été effectuée au moment de l'échantillonnage. Nous vous recommandons d'échantillonner de nouveau dès que possible afin de contrôler la situation.

Wear

Les taux d'usure de tous les composants sont normaux.

Contamination

Il y a une quantité modérée de matières particulaires (2 à 100 µm de taille) présente dans l'huile.

Fluid Condition

Le résultat pour le BN indique que la réserve d'alcalinité est acceptable pour l'huile. L'huile peut encore servir si la contamination peut être réduite à un niveau acceptable.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WA0020328	WA0019208	WA0015885
Sample Date	Client Info	20 Oct 2023	26 Jul 2023	11 Dec 2020
Machine Age	hrs	4800	4514	1695
Oil Age	hrs	4800	0	0
Oil Changed	Client Info	Changed	N/A	Not Changd
Sample Status		ABNORMAL	NORMAL	NORMAL

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m) >20	17	19	8
Chromium	ppm	ASTM D5185(m) >10	<1	<1	<1
Nickel	ppm	ASTM D5185(m) >10	0	0	0
Titanium	ppm	ASTM D5185(m)	0	0	0
Silver	ppm	ASTM D5185(m)	<1	0	<1
Aluminum	ppm	ASTM D5185(m) >10	4	5	1
Lead	ppm	ASTM D5185(m) >10	<1	0	0
Copper	ppm	ASTM D5185(m) >75	2	2	1
Tin	ppm	ASTM D5185(m) >10	0	<1	0
Antimony	ppm	ASTM D5185(m)	0	0	<1
Vanadium	ppm	ASTM D5185(m)	0	0	0
Beryllium	ppm	ASTM D5185(m)	0	0	0
Cadmium	ppm	ASTM D5185(m)	0	0	0

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)	<1	<1	<1
Barium	ppm	ASTM D5185(m)	<1	0	0
Molybdenum	ppm	ASTM D5185(m)	0	0	0
Manganese	ppm	ASTM D5185(m)	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	2	<1	<1
Calcium	ppm	ASTM D5185(m)	6	9	2
Phosphorus	ppm	ASTM D5185(m) 510	479	579	501
Zinc	ppm	ASTM D5185(m)	20	25	25
Sulfur	ppm	ASTM D5185(m)	147	169	100
Lithium	ppm	ASTM D5185(m)	<1	<1	<1

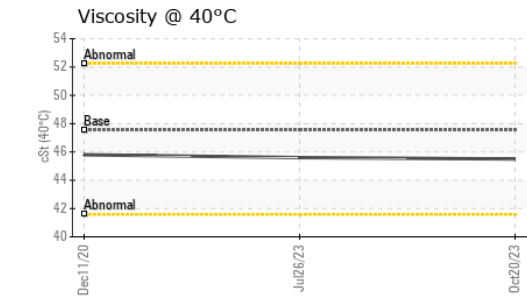
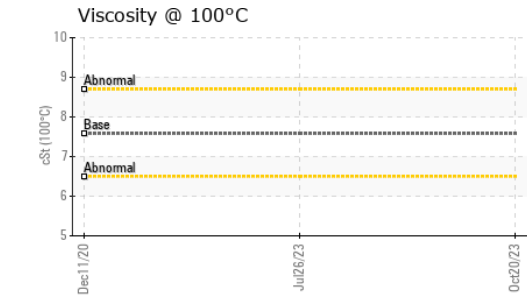
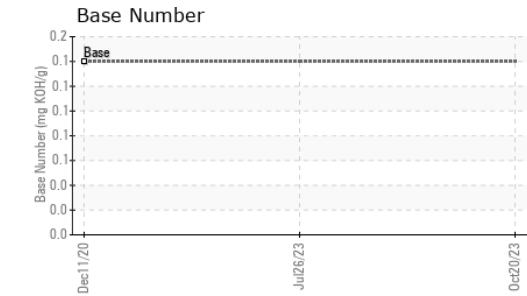
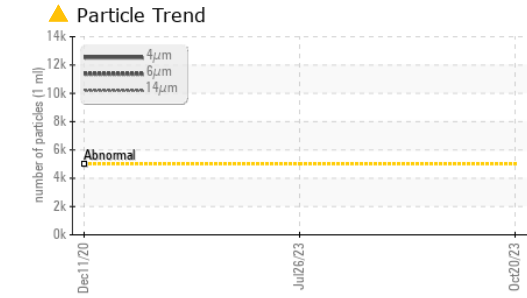
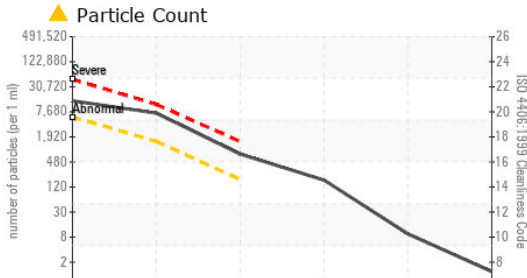
CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m) >20	2	2	2
Sodium	ppm	ASTM D5185(m)	<1	1	<1
Potassium	ppm	ASTM D5185(m) >20	0	1	<1

INFRA-RED

method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	0	---	---
Nitration	Abs/cm	ASTM D7624*	3.0	---	---
Sulfation	Abs./1mm	ASTM D7415*	16.7	---	---

OIL ANALYSIS REPORT



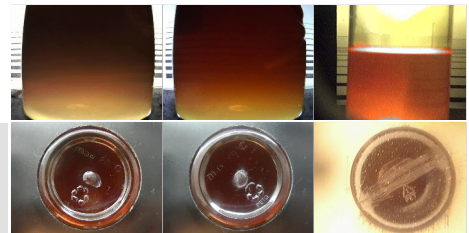
FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	▲ 12269	---	---
Particles >6µm	ASTM D7647	>1300	▲ 6228	---	---
Particles >14µm	ASTM D7647	>160	▲ 650	---	---
Particles >21µm	ASTM D7647	>40	▲ 155	---	---
Particles >38µm	ASTM D7647	>10	8	---	---
Particles >71µm	ASTM D7647	>3	1	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 21/20/17	---	---

FLUID DEGRADATION	method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	7.8	---	---
Base Number (BN)	mg KOH/g	ASTM D2896*	0.11	---	---

VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
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
Free Water	scalar	Visual*	NEG	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	47.54	45.5	45.6
Visc @ 100°C	cSt	ASTM D7279(m)	7.58	7.3	---
Viscosity Index (VI)	Scale	ASTM D2270*	125	122	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WA020328 **Received** : 25 Oct 2023
Lab Number : 02591678 **Diagnosed** : 27 Oct 2023
Unique Number : 5668757 **Diagnostician** : Wes Davis
Test Package : MOB 2 (Additional Tests: FT-IR, KV100, TBN, VI)

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.

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