

History1

20 Dec 2023 826

826 826

JR0199314 ----

Not Changd ----

Not Changd ----

NORMAL

16 <1

NONE

NONE

<1 0

NEG

4870 1109

19/17/13

NORML ----

- - - -

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NONE

NONE

NONE

NORML

NEG

<1 0

0

48

139

0.10

46.3

48

107

0.13

44.9

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History2

## Machine Id HITACHI 135LC HCMDAT60E00200673 **Hydraulic System** HITACHI HYDRAULIC SUPER EX 46HN (--- QTS)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current
	Sample Number		Client Info		JR0225490
Resample at the next service interval to monitor.	Sample Date		Client Info		27 Jun 2024
	Machine Age	hrs	Client Info		1249
	Oil Age	hrs	Client Info		0
	Filter Age	hrs	Client Info		0
	Oil Changed		Client Info		Not Changd
	Filter Changed		Client Info		Changed
	Sample Status				NORMAL
					45
WEAR All component wear rates are normal.	PQ		ASTM D8184	00	15
	Iron	ppm	ASTM D5185m		5
	Chromium	ppm	ASTM D5185m		<1
	Nickel	ppm	ASTM D5185m	>10	<1
	Titanium	ppm	ASTM D5185m		<1
	Silver	ppm	ASTM D5185m		<1
	Aluminum	ppm	ASTM D5185m		2
	Lead	ppm	ASTM D5185m		<1
	Copper	ppm	ASTM D5185m		2
	Tin	ppm	ASTM D5185m	>10	<1
	Vanadium	ppm	ASTM D5185m		<1
	White Metal	scalar	*Visual	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	2
CONTAMINATION	Potassium	ppm	ASTM D5185m		2
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.	Water	ppiii	WC Method		NEG
			ASTM D7647		1702
	Particles >4µm Particles >6µm		ASTM D7647 ASTM D7647		334
	Particles >14µm		ASTM D7647 ASTM D7647		31
	Particles >21µm		ASTM D7647 ASTM D7647	>40	11
	Particles >38µm		ASTM D7647 ASTM D7647		0
	Particles >71µm		ASTM D7647 ASTM D7647		0
	Oil Cleanliness		ISO 4406 (c)		18/16/12
	Silt	scalar	*Visual	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE
			*Visual	NORML	NORML
	Appearance Odor	scalar			
		scalar	*Visual	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.1	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		0
	Barium	ppm	ASTM D5185m		1
	Molybdenum	ppm	ASTM D5185m		<1
	Manganese	ppm	ASTM D5185m		<1
	Magnesium	ppm	ASTM D5185m		<1
	Calcium	ppm	ASTM D5185m		0
	Phosphorus	ppm	ASTM D5185m	827	429
	7:		ACTM DE10Em	0	40

Zinc

Sulfur

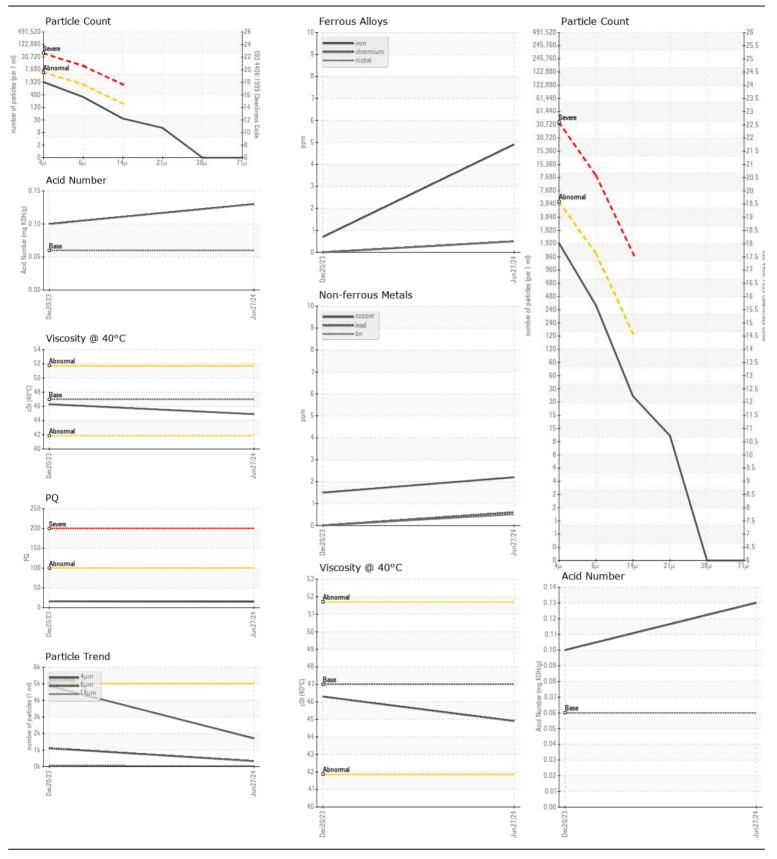
ASTM D5185m 0

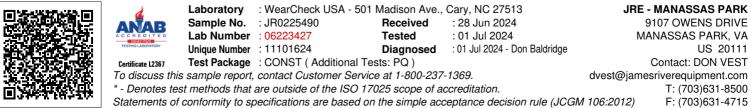
ppm ASTM D5185m 13

ppm

Acid Number (AN) mg KOH/g ASTM D8045 0.06

Visc @ 40°C cSt ASTM D445 47





Contact/Location: DON VEST - JAMMAN Page 2 of 2