

Machine Id HITACHI 350LC 1FFDDR70EMF940972 Component Diesel Engine Fluid DIESEL ENGINE OIL SAE 40 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		JR0206822		JR0177955
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Date		Client Info		10 Apr 2024	28 Nov 2023	25 Jul 2023
	Machine Age	hrs	Client Info		3495	3135	2543
	Oil Age	hrs	Client Info		360	592	500
	Filter Age	hrs	Client Info		0	0	500
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	11	16	15
	Chromium	ppm	ASTM D5185m	>20	0	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	10	9	12
	Lead	ppm	ASTM D5185m	>40	0	0	0
	Copper	ppm	ASTM D5185m	>330	6	7	1
	Tin	ppm	ASTM D5185m	>15	<1	<1	<1
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
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CONTAMINATION	Silicon	ppm	ASTM D5185m		6	8	7
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		0	0	0
	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method WC Method	>0.2	NEG	NEG	NEG
	Glycol Soot %	0/		. 0	NEG	NEG	NEG
	Nitration	% Abs/cm	*ASTM D7844 *ASTM D7624	>3 >20	0.6 7.5	2 9.5	1.6 9.3
	Sulfation	Abs/.1mm	*ASTM D7624		21.0	24.2	23.8
	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		*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>216	2	2	2
The DN years this discuss the table of a stitute to a live limit, we reading the table	Boron	ppm	ASTM D5185m	250	248	183	225
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m	10	<1	0	0
	Molybdenum	ppm	ASTM D5185m	100	244	244	268
	Manganese	ppm	ASTM D5185m		1	1	1
	Magnesium	ppm	ASTM D5185m		821	824	907
	Calcium	ppm	ASTM D5185m		1354	1527	1579
	Phosphorus	ppm	ASTM D5185m		928	922	975
	Zinc	ppm	ASTM D5185m		1061	1096	1170
	Sulfur	ppm	ASTM D5185m		3428	2764	3689
	Ovidation	Abo/ 1mm	*ACTM D7/1/	- 0E	1/6	150	15 0

Oxidation

Visc @ 100°C cSt

15.8

9.2

15.0

15.8

9.2

15.0

14.6

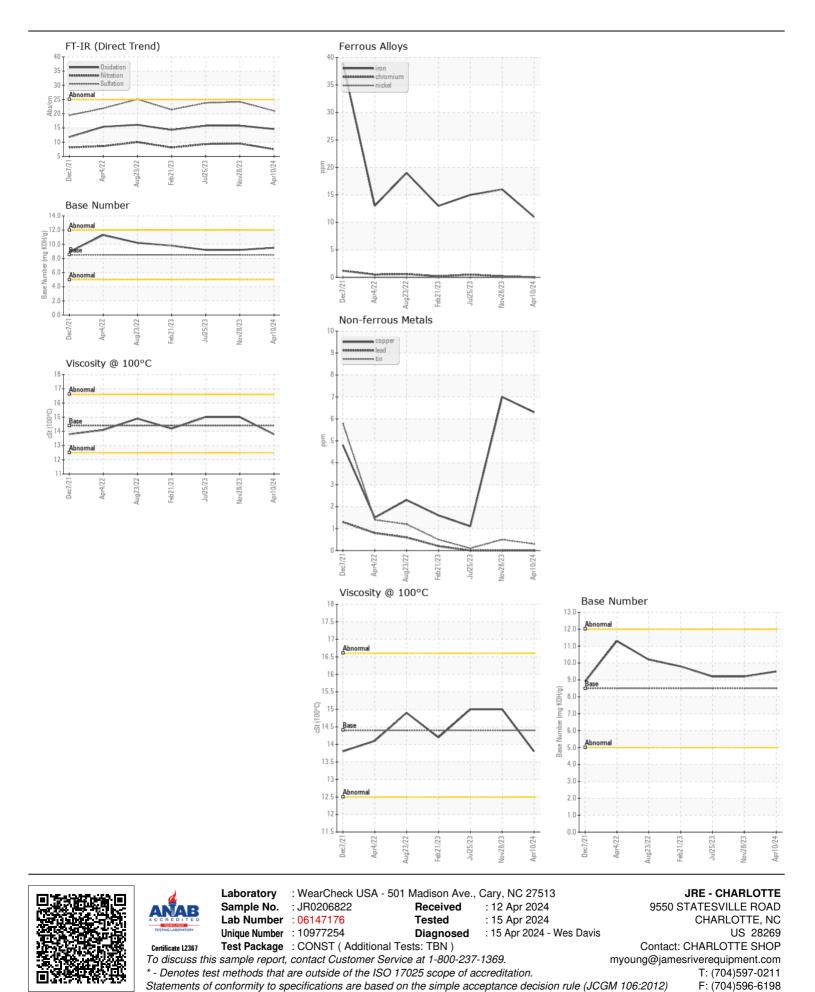
9.5

13.8

Abs/.1mm *ASTM D7414 >25

ASTM D445 14.4

Base Number (BN) mg KOH/g ASTM D2896 8.5



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Submitted By: Ray Benson Page 2 of 2