

[W47882] Machine Id HITACHI 85USB-5 HCMDEF60K00021559 Component Diesel Engine Fluid JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (3 GAL)

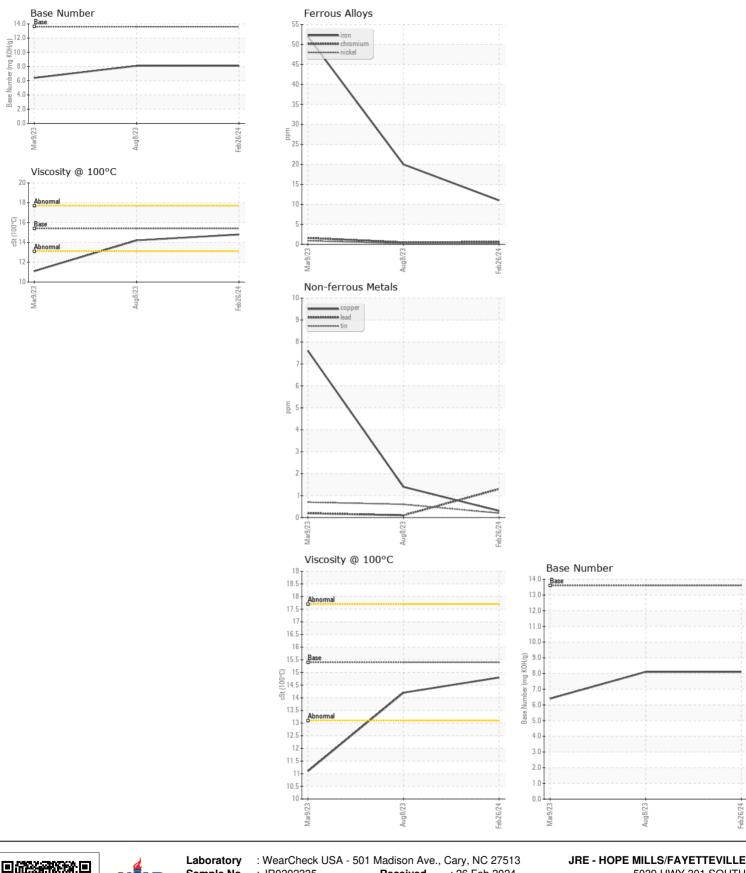
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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0202335	JR0181420	JR0163824
Sample Date		Client Info		26 Feb 2024	08 Aug 2023	09 Mar 2023
Machine Age	hrs	Client Info		2145	1469	900
Oil Age	hrs	Client Info		676	569	0
Filter Age	hrs	Client Info		676	569	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
Iron	maa	ASTM D5185m	>100	11	20	52
		ASTM D5185m	>20			2
						<1
			21			0
			>3			0
						5
				-		<1
						8
						0 <1
			>10			
						0
						NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	14	14	40
Potassium	ppm	ASTM D5185m	>20	3	15	1 87
Fuel		WC Method	>5	<1.0	<1.0	1.2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.6	0.6	0.6
Nitration	Abs/cm	*ASTM D7624	>20	9.4	8.8	9.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.8	22.5	20.4
Silt	scalar		NONE	NONE	NONE	NONE
Debris			NONE	NONE	NONE	NONE
Sand/Dirt				NONE	NONE	NONE
						NORML
Odor	scalar	*Visual		NORML	NORML	NORML
Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
Sodium		ASTM D5185m		°	2	9
						127
						3
						160
,						<1
-						144
-						2213
						685
						892
			05			2804
						15.5
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.1	8.1	6.4
	Sample NumberSample DateMachine AgeOil AgeFilter AgeOil ChangedFilter ChangedSample StatusIronChromiumNickelTitaniumSilverAluminumLeadCopperTinVanadiumWhite MetalYellow MetalSiliconPotassiumFuelWaterGlycolSoot %NitrationSiltDebrisSand/DirtAppearanceOdorEmulsified WaterBoronBariumMagnesiumCalciumPhosphorusZincSulfurOxidation	Sample NumberSample DateMachine AgehrsOil AgehrsFilter AgehrsOil ChangedFilter ChangedFilter Changedsample StatusIronppmChromiumppmNickelppmTitaniumppmSilverppmAluminumppmLeadppmTinppmVanadiumppmVanadiumppmValeescalarSiliconppmFuelyellow MetalSoot %%NitrationAbs/cmSulfationAbs/cmSulfationAbs/cmSulfationscalarOdorscalarAppearancescalarSodiumppmBoronppmManganeseppmManganeseppmVangesiumppmSulfurppmSulfurppmSodiumppmSodiumppmSulfurppmSulfurppmSulfurppmManganeseppmSulfurppmSulfurppmSulfurppmSulfurppmSulfurppmSulfurppmSulfurppmSulfurppmSulfurppmSulfurppmSulfurppmSulfurppmSulfurppmSulfurppm	Sample NumberClient InfoSample DateClient InfoMachine AgehrsClient InfoOil AgehrsClient InfoFilter AgehrsClient InfoOil ChangedClient InfoFilter ChangedClient InfoSample StatusClient InfoSample StatusNickelppmASTM D5185mNickelppmASTM D5185mSilverppmASTM D5185mAluminumppmASTM D5185mCopperppmASTM D5185mSilverppmASTM D5185mSilverppmASTM D5185mSilverppmASTM D5185mSilverppmASTM D5185mSilsemVanadiumppmASTM D5185mVanadiumppmASTM D5185mVanadiumppmASTM D5185mFuelWC MethodWhite Metalscalar*VisualSiliconppmASTM D5185mFuelWC MethodGlycolWC MethodSoot %%*ASTM D7415Siltscalar*VisualSand/Dirtscalar*VisualAppearancescalar*VisualAppearancescalar*VisualBoronppmASTM D5185mManganeseppmASTM D5185mMagnesiumppmASTM D5185mMagnesiumppmASTM D5185mSulfurppmASTM D5185mSulfurppmASTM D5185mMagnesiu	Sample NumberClient InfoSample DateClient InfoMachine AgehrsClient InfoOil AgehrsClient InfoFilter AgehrsClient InfoFilter ChangedClient InfoFilter ChangedClient InfoSample StatusSample StatusIronppmASTM D5185mNickelppmASTM D5185mSilverppmASTM D5185mSilverppmASTM D5185mSilverppmASTM D5185mSilverppmASTM D5185mSilverppmASTM D5185mSilverppmASTM D5185mSilverppmASTM D5185mVanadiumppmASTM D5185mVanadiumppmASTM D5185mVanadiumppmASTM D5185mVanadiumppmASTM D5185mVellow Metalscalar*VisualVisualNONESiliconppmASTM D5185mVanadiumppmASTM D5185mValderwC MethodSoot %%*ASTM D5185mSulfationAbs/tmm*ASTM D7624Soot %%*ASTM D7624Soldy%*ASTM D5185mSand/Dirtscalar*VisualNONEScalar*VisualAppearancescalar*VisualNONEScalar*VisualAppearancescalar*VisualAppearancescalar*VisualBoronppmASTM D5185m </th <td>Sample NumberClient InfoJR0202335Sample DateClient Info26 Feb 2024Machine AgehrsClient Info676Filter AgehrsClient Info676Filter AgehrsClient InfoChangedFilter ChangedClient InfoChangedSample StatusClient InfoChangedIronppmASTM D5185m>100NickelppmASTM D5185m>20NickelppmASTM D5185m>20SilverppmASTM D5185m>3OAluminumppmASTM D5185mSilverppmASTM D5185m>30CopperppmASTM D5185m>30CopperppmASTM D5185m>330CliconppmASTM D5185m>1VanadiumppmASTM D5185m>20Yellow Metalscalar*VisualNONENONEYellow Metalscalar*VisualNONESiliconpprASTM D5185m>203FuelWC Method>0.2NEGSoto %%%'ASTM D7624>20SulfationAbs/cm*ASTM D7185m>223Siltscalar*VisualNONENONEAppearancescalar*VisualNORENONESodiumppmASTM D7185m<2</td> 9.4Siltascalar*VisualNORENONEAppearancescalar*VisualNORE <td>Sample Number Client Info JR0202335 JR0181420 Sample Date Client Info 26 Feb 2024 08 Aug 2023 Machine Age hrs Client Info 676 569 Oil Age hrs Client Info 676 569 Oil Changed Client Info 676 569 Oil Changed Client Info 676 569 Oil Changed Client Info 676 569 Sample Status NORMAL NORMAL NORMAL Iron ppm ASTM D5185m >100 11 20 Chromium ppm ASTM D5185m >20 <1</td> <1 Nickel ppm ASTM D5185m >3 0 0 Silver ppm ASTM D5185m >40 1 <1 <1 Tim ppm ASTM D5185m >15 <1 <1 <1 Vanadium ppm ASTM D5185m >20 3 15 Fued WC StM D5185m	Sample NumberClient InfoJR0202335Sample DateClient Info26 Feb 2024Machine AgehrsClient Info676Filter AgehrsClient Info676Filter AgehrsClient InfoChangedFilter ChangedClient InfoChangedSample StatusClient InfoChangedIronppmASTM D5185m>100NickelppmASTM D5185m>20NickelppmASTM D5185m>20SilverppmASTM D5185m>3OAluminumppmASTM D5185mSilverppmASTM D5185m>30CopperppmASTM D5185m>30CopperppmASTM D5185m>330CliconppmASTM D5185m>1VanadiumppmASTM D5185m>20Yellow Metalscalar*VisualNONENONEYellow Metalscalar*VisualNONESiliconpprASTM D5185m>203FuelWC Method>0.2NEGSoto %%%'ASTM D7624>20SulfationAbs/cm*ASTM D7185m>223Siltscalar*VisualNONENONEAppearancescalar*VisualNORENONESodiumppmASTM D7185m<2	Sample Number Client Info JR0202335 JR0181420 Sample Date Client Info 26 Feb 2024 08 Aug 2023 Machine Age hrs Client Info 676 569 Oil Age hrs Client Info 676 569 Oil Changed Client Info 676 569 Oil Changed Client Info 676 569 Oil Changed Client Info 676 569 Sample Status NORMAL NORMAL NORMAL Iron ppm ASTM D5185m >100 11 20 Chromium ppm ASTM D5185m >20 <1

Visc @ 100°C cSt ASTM D445 15.4

11.1

14.2

14.8



JRE - HOPE MILLS/FAYETTEVILLE Sample No. : JR0202335 Received : 26 Feb 2024 5039 HWY 301 SOUTH Lab Number : 06100667 Tested : 27 Feb 2024 HOPE MILLS, NC Unique Number : 10898897 : 28 Feb 2024 - Sean Felton US 28348 Diagnosed Test Package : CONST (Additional Tests: TBN) Contact: FAYETTEVILLE SHOP Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. stephen.mullis@jamesriverequipment.com;canastasio@wearcheck.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Т: F: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)