

Area [W45119] Machine Id HAMM HC 70I WGH0H288KHAA00078 Component Diesel Engine Fluid DIESEL ENGINE OIL SAE 40 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm.	Sample Number		Client Info		JR0208390		
	Sample Date		Client Info		22 Feb 2024		
	Machine Age	hrs	Client Info		65		
	Oil Age	hrs	Client Info		65		
	Filter Age	hrs	Client Info		65		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
				100	40		
WEAR	Iron	ppm	ASTM D5185m		10		
Metal levels are typical for a components first oil change.	Chromium Nickel	ppm	ASTM D5185m		<1		
		ppm	ASTM D5185m	>4	<1		
	Titanium	ppm	ASTM D5185m	0	<1		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m		2		
	Lead	ppm	ASTM D5185m	>40	<1 16		
	Copper Tin	ppm	ASTM D5185m ASTM D5185m		10		
	Vanadium	ppm	ASTM D5185m	>10	ו <1		
	White Metal	ppm	*Visual	NONE	NONE		
		scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	visual	NONE			
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	18		
	Potassium	ppm	ASTM D5185m	>20	4		
There is no indication of any contamination in the oil.	Fuel		WC Method	>5	<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.1		
	Nitration	Abs/cm	*ASTM D7624	>20	7.2		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	16.8		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.2	NEG		
FLUID CONDITION	Sodium	nom	ASTM D5185m	> 216	5		
FLUID CONDITION	Boron	ppm	ASTM D5185m		85		
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		8		
	Molybdenum	ppm ppm	ASTM D5185m		76		
	Manganese	ppm	ASTM D5185m	100	2		
	Magnesium	ppm	ASTM D5185m	450	116		
	Calcium	ppm	ASTM D5185m	3000	1837		
	Phosphorus	ppm	ASTM D5185m		922		
	Zinc	ppm		1350	1045		
	0.1	PPIII	AOTM D5105III				

Sulfur

Oxidation

Visc @ 100°C cSt

ppm ASTM D5185m 4250

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

Abs/.1mm *ASTM D7414 >25

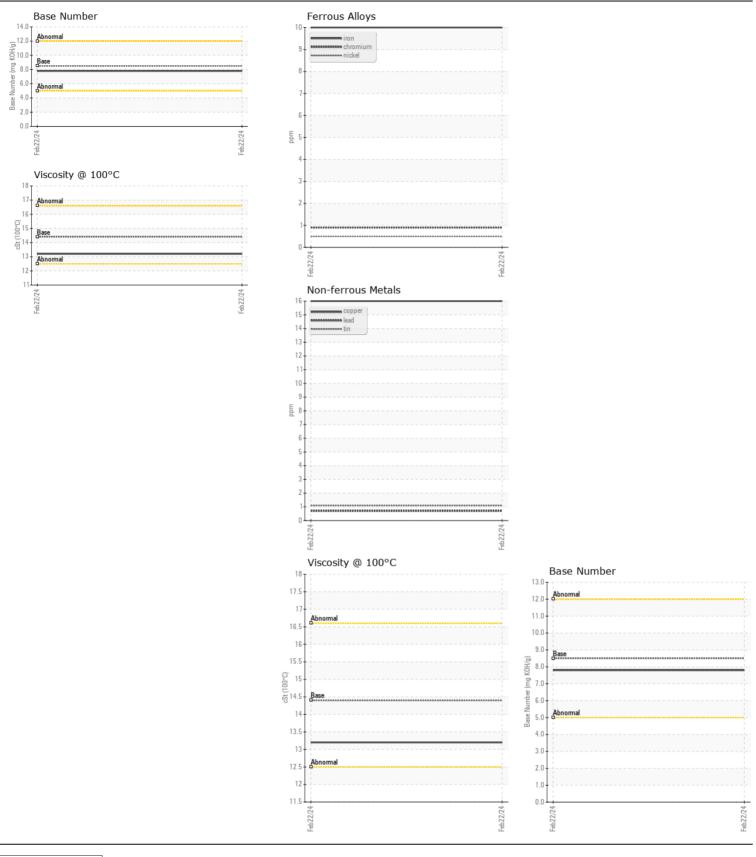
ASTM D445 14.4

3860

13.1

7.8

13.2



JRE - MANASSAS PARK Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : JR0208390 Received : 27 Feb 2024 9107 OWENS DRIVE Lab Number : 06102290 Tested : 28 Feb 2024 MANASSAS PARK, VA Unique Number : 10900520 Diagnosed : 28 Feb 2024 - Wes Davis US 20111 Test Package : CONST (Additional Tests: TBN) Contact: DON VEST Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. dvest@jamesriverequipment.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (703)631-8500 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (703)631-4715

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Contact/Location: DON VEST - JAMMAN