WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

Machine Id

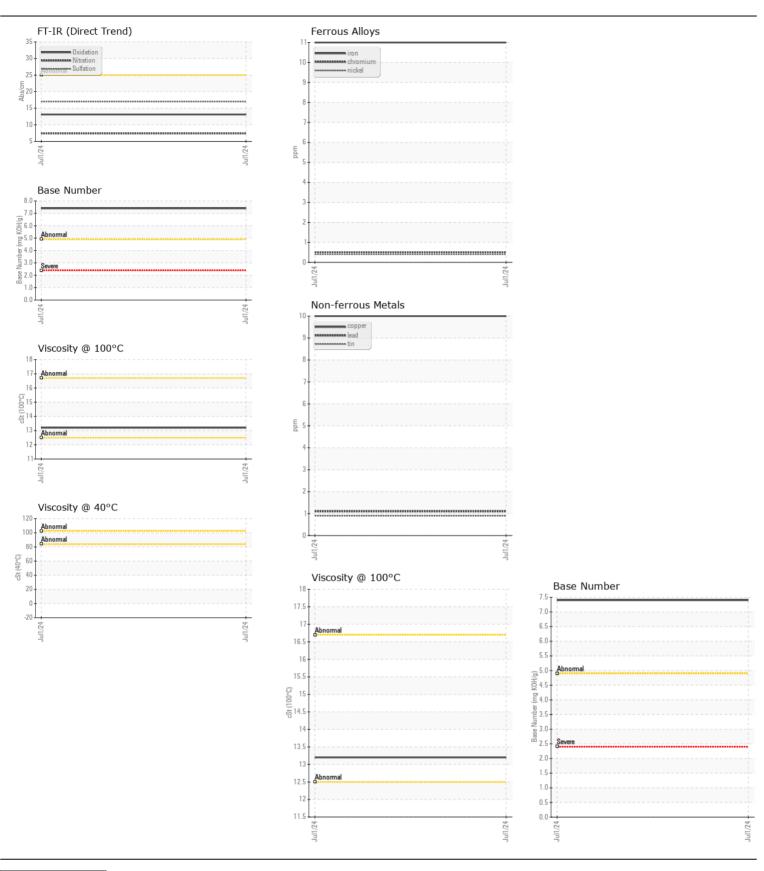
HAMM HI12VV WGM0122J6ANBA07359

Diesel Engine

{not provided} (--- QTS)

inot provided? (Q13)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0208542		
	Sample Date		Client Info		01 Jul 2024		
	Machine Age	hrs	Client Info		99		
	Oil Age	hrs	Client Info		99		
	Filter Age	hrs	Client Info		99		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		N/A		
	Sample Status				NORMAL		
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>51	11		
	Chromium	ppm	ASTM D5185m	>11	<1		
	Nickel	ppm	ASTM D5185m		<1		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m	>3	<1		
	Aluminum	ppm	ASTM D5185m		5		
	Lead	ppm	ASTM D5185m		1		
	Copper	ppm	ASTM D5185m		10		
	Tin	ppm	ASTM D5185m		<1		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
			· · · · · · · · · · · · · · · · · · ·	NONE	·····		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	10		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	3		
	Fuel		WC Method		<1.0		
	Water		WC Method	>0.21	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.1		
	Nitration	Abs/cm	*ASTM D7624	>20	7.4		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	17.0		
	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	>0.21	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	5		
	Boron	ppm	ASTM D5185m		84		
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		5		
	Molybdenum	ppm	ASTM D5185m		93		
	Manganese	ppm	ASTM D5185m		2		
	Magnesium	ppm	ASTM D5185m		31		
	Calcium	ppm	ASTM D5185m		2593		
	Phosphorus	ppm	ASTM D5185m		1010		
	Zinc	ppm	ASTM D5185m		1217		
	Sulfur	ppm	ASTM D5185m		4215		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	13.1		
			ASTM D2896		7.4		
	Base Number (BN)	IIIU NUH/II	ASTIVI DZ030		/.4		

Contact/Location: DON VEST - JAMMAN







Laboratory Sample No.

: JR0208542 Lab Number : 06225842 Unique Number : 11109335

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Received **Tested** Diagnosed

: 02 Jul 2024 : 03 Jul 2024

: 03 Jul 2024 - Jonathan Hester

JRE - MANASSAS PARK 9107 OWENS DRIVE MANASSAS PARK, VA US 20111

Contact: DON VEST dvest@jamesriverequipment.com T: (703)631-8500

Test Package : CONST (Additional Tests: KV40, TBN) Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: (703)631-4715