WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

Machine Id

LONG SHOT

Port Diesel Engine

DIESEL ENGINE OIL SAE 15W40 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History
Resample at the next service interval to monitor. Please specify the component make and model with your next sample.	Sample Number		Client Info		JR0110495		
	Sample Date		Client Info		24 Jan 2022		
	Machine Age	hrs	Client Info		0		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		N/A		
	Filter Changed		Client Info		N/A		
	Sample Status				NORMAL		
/FAR	Iron	nnm	ASTM D5185m	. 100	7		
/EAR	Iron	ppm			7		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1		
	Nickel	ppm	ASTM D5185m	>4	2		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m		<1		
	Aluminum	ppm	ASTM D5185m	>20	1		
	Lead	ppm	ASTM D5185m		<1		
	Copper	ppm	ASTM D5185m	>330	<1		
	Tin	ppm	ASTM D5185m	>15	<1		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
ONTAMINATION	Silicon		ACTM DE10Em	. 05	4		
CONTAMINATION		ppm	ASTM D5185m		7		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m				
	Fuel		WC Method		<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method	-	NEG		
	Soot %	%	*ASTM D7844		0.1		
	Nitration	Abs/cm	*ASTM D7624	>20	6.1		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.4		
	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		
LUID CONDITION	Sodium	nnm	ASTM D5185m	L 150	2		
LOID CONDITION	Boron	ppm	ASTM D5185m		3 115		
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		0		
		ppm	ASTM D5185m		27		
	Molybdenum	ppm	ASTM D5185m	100			
	Manganese	ppm		450	<1		
	Magnesium	ppm	ASTM D5185m		341		
	Calcium	ppm	ASTM D5185m		1779		
	Phosphorus	ppm	ASTM D5185m		993		
	Zinc	ppm	ASTM D5185m		1189		
	Sulfur	ppm	ASTM D5185m		3335		
	Oxidation	Abs/.1mm	*ASTM D7414		16.7		
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	10.0		
		cSt	ASTM D445		14.5		





Laboratory Sample No.

: JR0110495 Lab Number : 05450999 Unique Number : 9825194

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

Diagnosed

: 26 Jan 2022 : 26 Jan 2022 - Wes Davis

: 25 Jan 2022

JRE - CASTLE HAYNE 113 CROWATAN ROAD CASTLE HAYNE, NC US 28429-5819

Contact: MARC BAKER marc.baker@jamesriverequipment.com

Test Package: MOBCE (Additional Tests: 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)

T: (910)675-9211