WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

IAN Machine Id IAN (S/N LO TANK) Component

Main Engine

CHEVRON DELO 710 LS (350 GAL)

ECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History
Resample at the next service interval to monitor.	Sample Number		Client Info		MW0009895		
	Sample Date		Client Info		07 Sep 2021		
	Machine Age	hrs	Client Info		62625		
	Oil Age	hrs	Client Info		1464		
	Filter Age	hrs	Client Info		1200		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
/EAR	Iron	nnm	ASTM D5185m	~ 75	9		
ZEAN	Chromium	ppm	ASTM D5185m		ع <1		
All component wear rates are normal.		ppm					
	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m		<1		
	Aluminum	ppm	ASTM D5185m		1		
	Lead	ppm	ASTM D5185m		2		
	Copper	ppm	ASTM D5185m		7		
	Tin	ppm	ASTM D5185m	>14	2		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
ONTAMINATION	Silicon	ppm	ASTM D5185m	>20	2		
31117 W.M. (711311	Potassium	ppm	ASTM D5185m	>20	0		
There is no indication of any contamination in the oil.	Fuel	ρρ	WC Method		<1.0		
	Water		WC Method		NEG		
	Glycol		WC Method	20.1	NEG		
	Soot %	%	*ASTM D7844	~3	0.2		
	Nitration	Abs/cm	*ASTM D7624	>20	7.2		
	Sulfation	Abs/.1mm	*ASTM D7024		15.2		
	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	>0.1	NEG		
LUID CONDITION	Sodium	ppm	ASTM D5185m	>75	2		
	Boron	ppm	ASTM D5185m		37		
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		
	Molybdenum	ppm	ASTM D5185m		44		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m		21		
	Calcium	ppm	ASTM D5185m		3165		
	Phosphorus	ppm	ASTM D5185m		11		
	Zinc	ppm	ASTM D5185m		9		
	Sulfur	ppm	ASTM D5185m		1787		
	Oxidation	Abs/.1mm	*ASTM D3163111	>25	9.9		
	Base Number (BN)				6.3		
		IIIU NUH/()	MO 1 IVI DZ090	10.5	0.3		







Report Id: AMESAI [WUSCAR] 05361536 (Generated: 04/08/2024 08:03:57) Rev: 1

Laboratory Sample No.

Lab Number : 05361536 Unique Number : 9675629

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : MW0009895 Received : 29 Sep 2021

Tested Diagnosed

: 30 Sep 2021 : 30 Sep 2021 - Don Baldridge

AMERICAN RIVER TRANSPORTATION CO. P.O. BOX 2889

ST. LOUIS, MO US 63111 Contact: JASON PORTER

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Test Package : MAR 2 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: