

[45005210] Machine Id INTERNATIONAL 9571921 Component Diesel Engine

MOBIL DELVAC MX 15W40 (--- QTS)

RECOMMENDATION

We advise that you check for faulty combustion, plugged air filters, or aftercoolers. We recommend you service the filters on this component. Resample at the next service interval to monitor. NOTE: High solids (carbon/soot) in the sample have limited the accuracy of Infra-Red data including Total Base Number (TBN) value.

Test

Visc @ 100°C cSt

UOM

Method

Limit/Abn

WEAR

All component wear rates are normal.

CONTAMINATION

There is an abnormal amount of solids and carbon present in the oil.

FLUID CONDITION

The BN level is low.

Test	UOIVI	wethod	LIMII/ADH	Current	HISTOLA	HIStory2
Sample Number		Client Info		RPL0016519	RPL0016388	
Sample Date		Client Info		12 Jun 2024	15 Dec 2023	
Machine Age	mls	Client Info		439169	419050	
Oil Age	mls	Client Info		0	419050	
Filter Age	mls	Client Info		0	419050	
Oil Changed		Client Info		Not Changd	Not Changd	
Filter Changed		Client Info		Not Changd	Not Changd	
Sample Status		0.10111110		ABNORMAL	NORMAL	
Iron	ppm	ASTM D5185m	>100	41	22	
Chromium	ppm	ASTM D5185m	>20	2	2	
Nickel	ppm	ASTM D5185m	>4	1	0	
Titanium	ppm	ASTM D5185m		<1	0	
Silver	ppm	ASTM D5185m	>3	<1	0	
Aluminum	ppm	ASTM D5185m	>20	5	3	
Lead	ppm	ASTM D5185m	>40	2	<1	
Copper	ppm	ASTM D5185m	>330	17	6	
Tin	ppm	ASTM D5185m	>15	1	<1	
Vanadium	ppm	ASTM D5185m	210	ו <1	0	
White Metal			NONE		NONE	
	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Silicon	ppm	ASTM D5185m	>25	16	14	
Potassium	ppm	ASTM D5185m	>20	38	26	
Fuel	%	ASTM D3103III	>2.0	<1.0	<1.0	
Water	/0	WC Method	>0.2	NEG	NEG	
Glycol		WC Method	>0.2	NEG	NEG	
	0/		0			
Soot %	%	*ASTM D7844 *ASTM D7624	>3	4 .6	1.3	
Nitration	Abs/cm		>20	20.3	8.5	
Sulfation	Abs/.1mm	*ASTM D7415	>30	34.8	24.0	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
O e ell'eur				<u>0</u> 4	45	
Sodium	ppm	ASTM D5185m		21	15	
Boron	ppm	ASTM D5185m		12	38	
Barium	ppm	ASTM D5185m		1	0	
Molybdenum	ppm	ASTM D5185m		46	40	
Manganese	ppm	ASTM D5185m		2	<1	
Magnesium	ppm	ASTM D5185m		501	528	
Calcium	ppm	ASTM D5185m		1753	1676	
Phosphorus	ppm	ASTM D5185m		761	813	
Zinc	ppm	ASTM D5185m		960	928	
Sulfur	ppm	ASTM D5185m		2393	2423	
Oxidation	Abs/.1mm	*ASTM D7414	>25	31.4	20.5	
Base Number (BN)	mg KOH/g	ASTM D2896	12	▲ 1.1	12.0	
	- 01				10.5	

ASTM D445 14.4

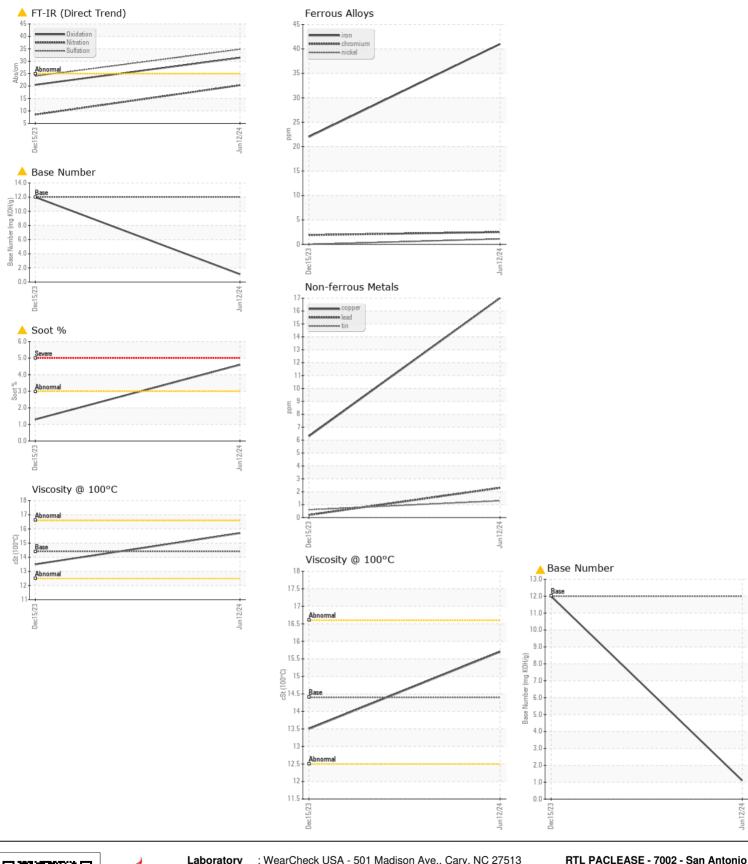
15.7

13.5

Current

History1

History2



RTL PACLEASE - 7002 - San Antonio Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : RPL0016519 Received : 25 Jun 2024 8810 IH-10 Frontage Road Lab Number : 06219340 Tested Converse, TX : 26 Jun 2024 Unique Number : 11097537 Diagnosed : 26 Jun 2024 - Don Baldridge US 78109 Test Package : FLEET (Additional Tests: FuelDilution) Contact: Mike Friel Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. FrielM@RushEnterprises.Com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (210)901-7283 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: