

Machine Id INTERNATIONAL 587-11 Component Diesel Engine Fluid DURALENE Dura-Max 15W40 (--- QTS)

RECOMMENDATION

We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

WEAR

All component wear rates are normal.

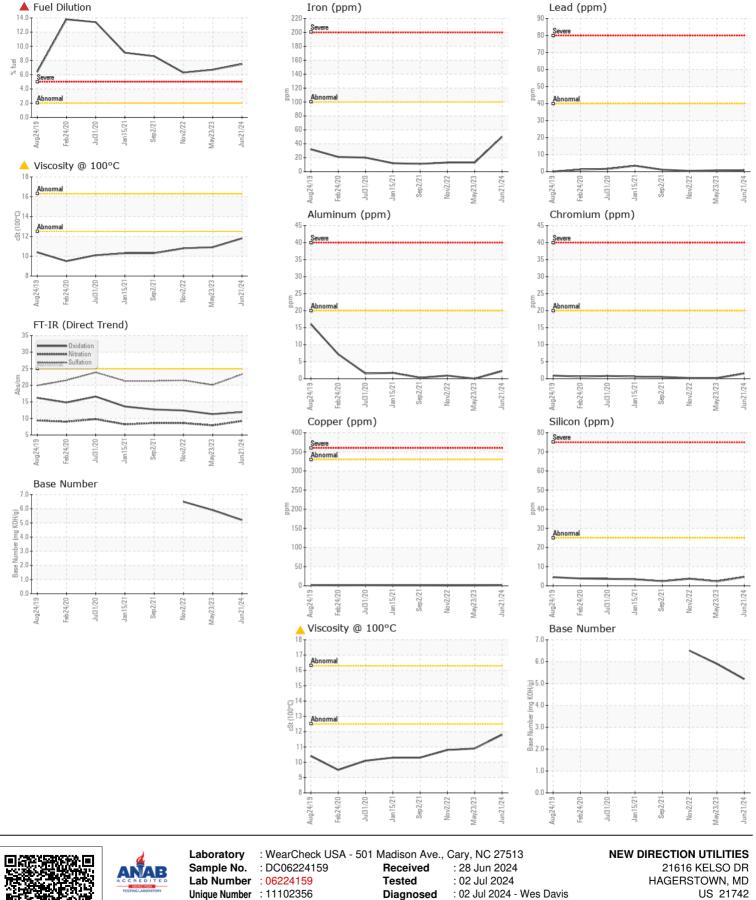
CONTAMINATION

There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		DC06224159	DC0014360	DC0014353
Sample Date		Client Info		21 Jun 2024	23 May 2023	02 Nov 2022
Machine Age	mls	Client Info		0	78843	0
Oil Age	mls	Client Info		0	94222	78843
Filter Age	mls	Client Info		0	94222	0
Oil Changed		Client Info		N/A	Changed	Changed
Filter Changed		Client Info		N/A	Changed	Changed
Sample Status		0.00.00.00		SEVERE	SEVERE	SEVERE
Iron	ppm	ASTM D5185m	>100	50	13	13
Chromium	ppm	ASTM D5185m	>20	2	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	2	0	<1
Lead	ppm	ASTM D5185m	>40	<1	<1	<1
Copper	ppm	ASTM D5185m	>330	2	1	<1
Tin	ppm	ASTM D5185m	>15	<1	<1	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	5	2	4
Potassium	ppm	ASTM D5185m	>20	3	3	2
Fuel	%	ASTM D3524	>2.0	A 7.5	6 .7	6 .3
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	2.6	0.5	0.5
Nitration	Abs/cm	*ASTM D7624	>20	9.2	7.9	8.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.3	20.1	21.5
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
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Sodium	ppm	ASTM D5185m		5	<1	4
Boron	ppm	ASTM D5185m		3	3	6
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		3	4	3
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m		40	43	43
Calcium	ppm	ASTM D5185m		2216	2327	2289
Phosphorus	ppm	ASTM D5185m		917	861	869
Zinc	ppm	ASTM D5185m		1045	1002	1028
Sulfur	ppm	ASTM D5185m	0.5	3418	3872	4465
Oxidation	Abs/.1mm	*ASTM D7414	>25	11.9	11.3	12.4
Base Number (BN)	mg KOH/g	ASTM D2896		5.2	5.9	6.5
Visc @ 100°C	cSt	ASTM D445		<u> </u>	10.9	10.8



 Unique number
 IIII02330
 Diagnosed
 : 02 Jul 2024 - Wes

 Certificate 12367
 Test Package
 : MOB 1 (Additional Tests: PercentFuel, TBN)

 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)

Submitted By: GARY BLOYER Page 2 of 2

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