

Machine Id **112** Component **Diesel Engine** Fluid **DIESEL ENGINE OIL SAE 40 (--- QTS)**

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0719777	WCM1371523	WCM1353863
We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Sample Date		Client Info		25 Jan 2024	09 Nov 2020	14 Apr 2020
	Machine Age	mls	Client Info		43145	0	18036
	Oil Age	mls	Client Info		0	0	0
	Filter Age	mls	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	N/A
	Filter Changed		Client Info		Changed	Changed	N/A
	Sample Status				SEVERE	ABNORMAL	NORMAL
WEAR	Iron		ASTM D5185m	. 100	70	1 02	32
WEAN	Chromium	ppm	ASTM D5185m		78 2	<1	<1
All component wear rates are normal.	Nickel	ppm ppm	ASTM D5185m		∠ <1	<1	<1
	Titanium	ppm	ASTM D5185m	24	0	<1	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		5	<1	2
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m		2	3	1
	Tin	ppm	ASTM D5185m		0	<1	0
	Vanadium	ppm	ASTM D5185m	10	0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	8	6	4
There is a high amount of fuel present in the oil.	Potassium	ppm	ASTM D5185m		2	7	<1
	Fuel	%	ASTM D3524		1 9.2	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.9	1.1	0.8
	Nitration	Abs/cm	*ASTM D7624	>20	16.5	12.1	9.4
	Sulfation	Abs/.1mm	*ASTM D7415		41.1	26.3	21.3
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual *Visual	NONE	NONE NORML	NONE NORML	NONE NORML
	Appearance Odor	scalar scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
		Jouran	Violai	20.L		NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>216	0	2	2
Fuel is present in the sil and is lowering the viscosity. The DN lovel is	Boron	ppm	ASTM D5185m	250	0	2	<1
Fuel is present in the oil and is lowering the viscosity. The BN level is low. The oil is no longer serviceable due to the presence of contaminants.	Barium	ppm	ASTM D5185m	10	0	<1	0
	Molybdenum	ppm	ASTM D5185m	100	26	2	<1
	Manganese	ppm	ASTM D5185m		<1	1	<1
	Magnesium	ppm	ASTM D5185m		373	13	8
	Calcium	ppm	ASTM D5185m		1133	2280	2424
	Phosphorus	ppm	ASTM D5185m		601	896	871
	Zinc	ppm	ASTM D5185m		816	1037	1000
	Sulfur	ppm	ASTM D5185m	4250	2162	3040	3029

Oxidation

Visc @ 100°C cSt

17.8

13.6

61.8

0.0

9.2

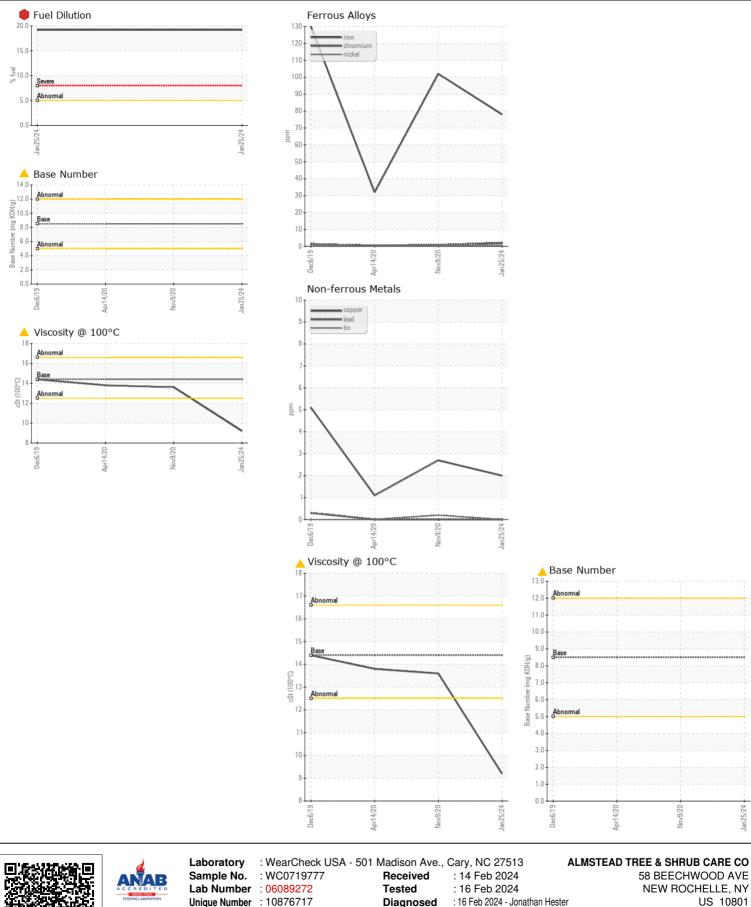
Abs/.1mm *ASTM D7414 >25

ASTM D445 14.4

Base Number (BN) mg KOH/g ASTM D2896 8.5

14.1

13.8



 Unique Number
 10870717
 Diagnosed
 :16 Feb 2024 - Jonathan Hester

 Certificate L3367
 Test Package
 : FLEET (Additional Tests: FuelDilution, PercentFuel)

 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)

Report Id: ALMNRONY [WUSCAR] 06089272 (Generated: 02/22/2024 20:22:46) Rev: 1

Contact/Location: ? ? - ALMNRONY

Contact:

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