

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

[PMOAS3340817] CUMMINS DGBB B050746587 onen

Diesel Engine

DIESEL ENGINE OIL SAE 15W40 (10 GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		DC0035256	DC0026706	DC0020416
	Sample Date		Client Info		05 Apr 2024	03 Apr 2023	14 Apr 2022
	Machine Age	hrs	Client Info		406	0	323
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>90	1	3	2
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m	>20	0	1	0
	Nickel	ppm	ASTM D5185m	>2	0	<1	0
	Titanium	ppm	ASTM D5185m	>2	0	<1	<1
	Silver	ppm	ASTM D5185m	>2	0	<1	<1
	Aluminum	ppm	ASTM D5185m	>20	<1	<1	1
	Lead	ppm	ASTM D5185m	>40	<1	<1	<1
	Copper	ppm	ASTM D5185m	>330	1	<1	<1
	Tin	ppm	ASTM D5185m	>15	0	<1	<1
	Vanadium	ppm	ASTM D5185m		<1	1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	5	6	3
	Potassium	ppm	ASTM D5185m	>20	1	3	2
There is no indication of any contamination in the oil.	Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>6	0	0	0
	Nitration	Abs/cm	*ASTM D7624	>20	5.5	5.4	6.1
	Sulfation	Abs/.1mm	*ASTM D7415	>30	15.7	15.3	16.7
	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
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>158	2	2	0
	Boron	ppm	ASTM D5185m	250	1	4	5
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	10	0	0	0
	Molybdenum	ppm	ASTM D5185m	100	3	4	2
	Manganese	ppm	ASTM D5185m		0	2	<1
	Magnesium	ppm	ASTM D5185m	450	51	45	41
	Calcium	ppm	ASTM D5185m	3000	2355	2024	2078
	Phosphorus	ppm	ASTM D5185m	1150	755	808	826
	Zinc	ppm	ASTM D5185m	1350	1036	979	979
	Sulfur	ppm	ASTM D5185m	4250	4242	3906	2856
	Oxidation	Abs/.1mm	*ASTM D7414	>25	10.5	9.3	10.1
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.5	7.7	8.9
	Vier C 10000	- 01	AOTA DAAS		1	10.0	10.0

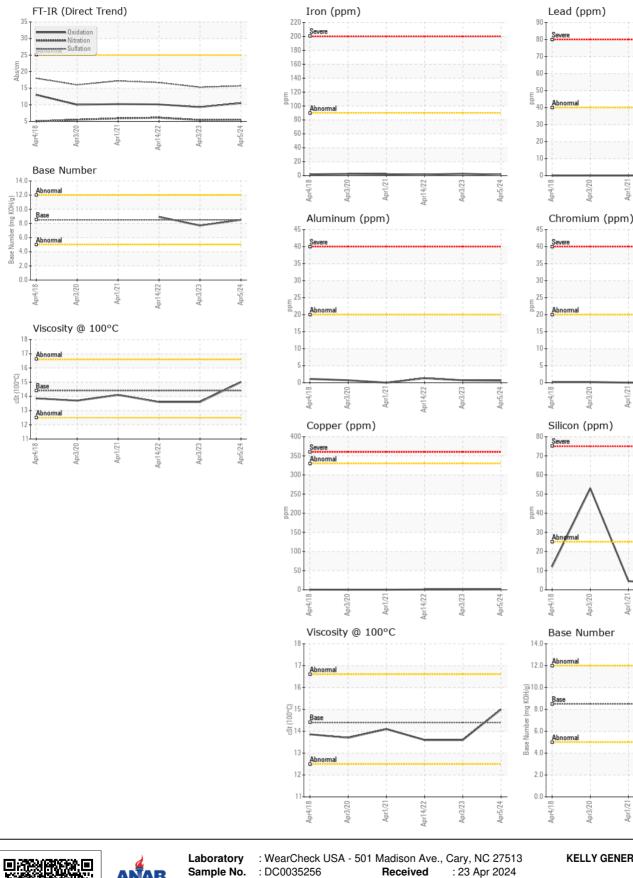
Visc @ 100°C cSt

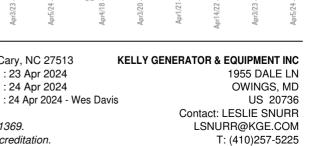
15.0

ASTM D445 14.4

13.6

13.6





Apr3/23

Apr3/23

or5/74

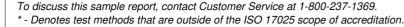
Apr14/22

Apr14/22

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or5/74

Apr14/22



Test Package : MOB 1 (Additional Tests: TBN)

Lab Number : 06157481

Unique Number : 10992904

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Tested

Diagnosed

: 24 Apr 2024

Certificate L2367

Contact/Location: LESLIE SNURR - KELOWI Page 2 of 2

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