

FLUID CONDITION

[PMOAS3340825] Machine Id CUMMINS D6BB 1050826711

Diesel Engine

DIESEL ENGINE OIL SAE 15W40 (--- QTS)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		DC0034976	DC0027722	DC0020399
	Sample Date		Client Info		09 Apr 2024	03 Apr 2023	11 Apr 2022
	Machine Age	hrs	Client Info		818	687	652
	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	<u>\</u> 90	1	2	2
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m		0	1	<1
	Nickel	ppm	ASTM D5185m		0	<1	0
	Titanium	ppm	ASTM D5185m		0	<1	<1
	Silver	ppm	ASTM D5185m		0	0	<1
	Aluminum	ppm	ASTM D5185m		<1	<1	2
	Lead	ppm	ASTM D5185m		<1	<1	<1
	Copper	ppm	ASTM D5185m		8	<1	<1
	Tin	ppm	ASTM D5185m		0	<1	<1
	Vanadium	ppm	ASTM D5185m	215	<1	1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
		Jouran	VISUUI	NONE		NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	3	5	2
	Potassium	ppm	ASTM D5185m	>20	1	2	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	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	6.6	5.9	6.8
	Sulfation	Abs/.1mm	*ASTM D7415	>30	16.9	15.5	17.0
	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 The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Sodium	ppm	ASTM D5185m	>158	1	2	0
	Boron	ppm	ASTM D5185m	250	<1	5	5
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		2	4	3
	Manganese	ppm	ASTM D5185m		0	2	<1
	Magnesium	ppm	ASTM D5185m	450	39	44	43
	Calcium	ppm	ASTM D5185m		2327	2039	2072
	Phosphorus	ppm	ASTM D5185m		928	822	830
	Zinc	ppm	ASTM D5185m	1350	1181	990	975
	Sulfur	ppm	ASTM D5185m		4737	3828	2805
	Oxidation	Abs/.1mm	*ASTM D7414		12.1	9.9	11.0
	Base Number (BN)		ASTM D2896		7.5	7.7	8.7
		0	AOTH DATE			10.0	10.0

Visc @ 100°C cSt

ASTM D445 14.4

13.2

12.8

12.6

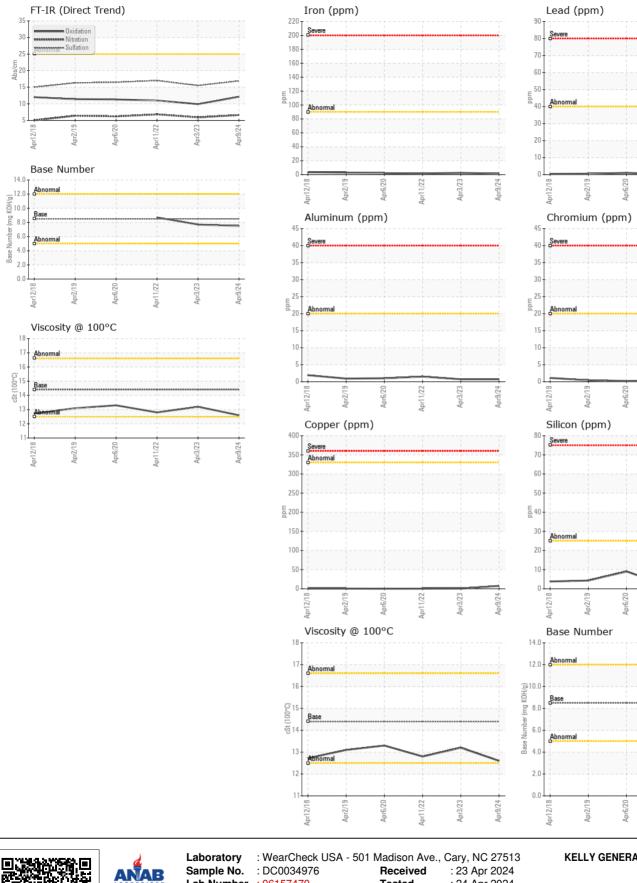
NORMAL

NORMAL

NORMAL

WEAR

CONTAMINATION



KELLY GENERATOR & EQUIPMENT INC 1955 DALE LN OWINGS, MD : 24 Apr 2024 - Wes Davis US 20736 Contact: LESLIE SNURR LSNURR@KGE.COM T: (410)257-5225 F: (410)257-5227 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Apr11/22 .

Apr3/23 .

Apr9/24 .

Apr3/23

unr9/74

Apr11/22

Apr11/22 .

Apr11/22

vpr3/23

Certificate L2367

Lab Number : 06157470

Unique Number : 10992893

Test Package : MOB 1 (Additional Tests: 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.

Tested

Diagnosed

: 24 Apr 2024

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