

## NORMAL WEAR NORMAL CONTAMINATION **FLUID CONDITION** NORMAL

## **MIXERS** [MIXERS] M296

Diesel Engine

**KENDALL 15W40 (--- GAL)** 

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		PCA0098499	PCA0109791	LP0001120
	Sample Date		Client Info		24 Jun 2024	19 Feb 2024	22 Nov 2023
	Machine Age	hrs	Client Info		24652	23972	23755
	Oil Age	hrs	Client Info		600	600	600
	Filter Age	hrs	Client Info		600	600	600
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	34	8	26
	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>4	0	0	<1
	Titanium	ppm	ASTM D5185m		<1	<1	1
	Silver	ppm	ASTM D5185m	>3	<1	0	0
	Aluminum	ppm	ASTM D5185m	>20	4	2	2
	Lead	ppm	ASTM D5185m	>40	2	<1	1
	Copper	ppm	ASTM D5185m	>330	10	3	11
	Tin	ppm	ASTM D5185m	>15	<1	<1	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	9	8	19
	Potassium	ppm	ASTM D5185m	>20	3	2	3
There is no indication of any contamination in the oil.	Fuel	le le	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.6	0.3	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	11.1	9.3	10.1
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.9	18.9	20.9
	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		3	2	6
	Boron	ppm	ASTM D5185m	6.3	37	50	32
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		0	0	0
	Molybdenum	ppm	ASTM D5185m		86	79	81
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m	277	57	115	131
	Calcium	ppm	ASTM D5185m		2326	1992	2006
	Phosphorus	ppm	ASTM D5185m		1040	1029	845
	Zinc	ppm	ASTM D5185m		1268	1195	1164
	Sulfur	ppm	ASTM D5185m		4169	3633	4154
	Oxidation	Abs/.1mm	*ASTM D7414		18.8	15.2	17.8
	Base Number (BN)			- 20	6.3	7.4	8.77
						10.7	10.0

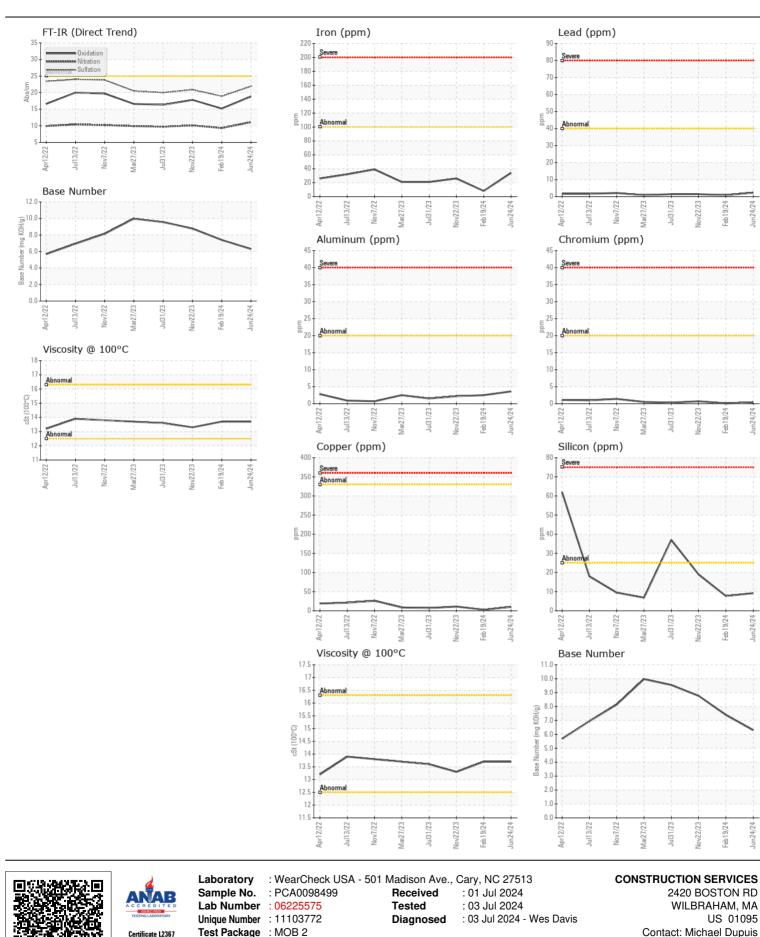
Visc @ 100°C cSt

ASTM D445

13.3

13.7

13.7



Certificate L2367
Test Package
: MOB 2
(C

To discuss this sample report, contact Customer Service at 1-800-237-1369.
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