

MIXERS Machine Id [MIXERS] M208

Component Diesel Engine Fluid KENDALL 15W40 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of complian has been noted. Decemble	Sample Number		Client Info		PCA0109788	LP0000662	LP0000189
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Date		Client Info		19 Feb 2024	13 Oct 2023	20 Jul 2023
	Machine Age	hrs	Client Info		14701	14347	13747
	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				ABNORMAL	ABNORMAL	ABNORMAL
WEAR	Iron	ppm	ASTM D5185m		6	4	10
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>4	0	0	<1
	Titanium	ppm	ASTM D5185m		<1	1	1
	Silver	ppm	ASTM D5185m	>3	0	0	<1
	Aluminum	ppm	ASTM D5185m	>20	3	3	3
	Lead	ppm	ASTM D5185m	>40	1	<1	2
	Copper	ppm	ASTM D5185m	>330	2	<1	2
	Tin	ppm	ASTM D5185m	>15	<1	0	<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	4 34	4 8	4 37
Elemental level of silicon (Si) above normal indicating ingress of seal material.	Potassium	ppm	ASTM D5185m	>20	1	2	1
	Fuel		WC Method	>5	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.3	0.2	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	9.8	8.0	10.2
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.3	17.3	20.6
	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		5	4	13
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m	6.3	58	62	42
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m	0.4	86	87	83
	Manganese	ppm	ASTM D5185m		<1	0	<1
	Magnesium	ppm	ASTM D5185m	277	122	141	332
	Calcium	ppm	ASTM D5185m	1514	2093	2074	2079
	Phosphorus	ppm	ASTM D5185m	634	1078	973	1082
	Zinc	ppm	ASTM D5185m	743	1300	1211	1347

Sulfur

Oxidation

Visc @ 100°C cSt

ppm ASTM D5185m 2592

ASTM D445

Abs/.1mm *ASTM D7414 >25

Base Number (BN) mg KOH/g ASTM D2896

3938

13.0

6.9

13.5

4360

8.43

16.2

13.2

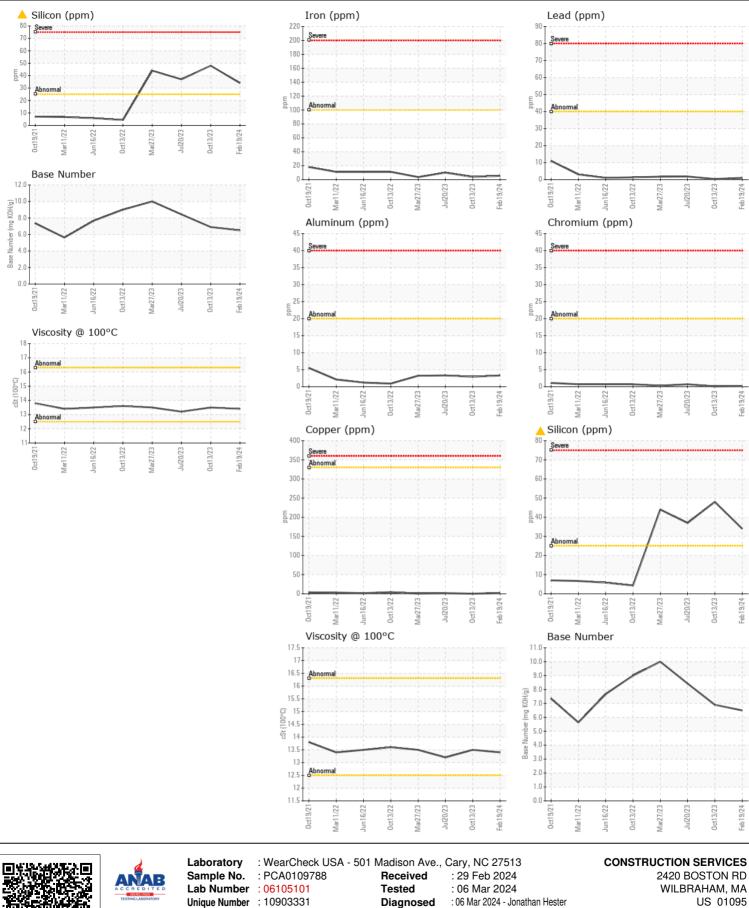
3721

15.1

6.5

13.4

WEAR NORMAL CONTAMINATION ABNORMAL FLUID CONDITION NORMAL



Test Package : MOB 2 Certificate L2367

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)

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Feb 19/24

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