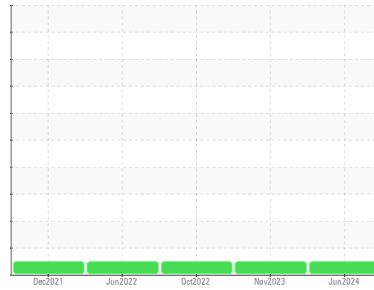


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
MIXERS
 Machine Id
[MIXERS] M283
 Component
Diesel Engine
 Fluid
KENDALL 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

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.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		PCA0098498	LP0001113	WC0721593
Sample Date	Client Info		24 Jun 2024	16 Nov 2023	20 Oct 2022
Machine Age	hrs	Client Info	35127	34793	33835
Oil Age	hrs	Client Info	600	600	600
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			NORMAL	NORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<1.0	<1.0	<1.0
Water	WC Method	>0.2	NEG	NEG	NEG
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	15	42	29
Chromium	ppm	ASTM D5185m >20	<1	2	1
Nickel	ppm	ASTM D5185m >4	0	0	0
Titanium	ppm	ASTM D5185m	1	2	<1
Silver	ppm	ASTM D5185m >3	0	0	0
Aluminum	ppm	ASTM D5185m >20	3	3	2
Lead	ppm	ASTM D5185m >40	0	6	6
Copper	ppm	ASTM D5185m >330	1	2	3
Tin	ppm	ASTM D5185m >15	<1	<1	2
Vanadium	ppm	ASTM D5185m	0	<1	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 6.3	49	31	18
Barium	ppm	ASTM D5185m 0.6	0	0	0
Molybdenum	ppm	ASTM D5185m 0.4	84	91	48
Manganese	ppm	ASTM D5185m	<1	<1	<1
Magnesium	ppm	ASTM D5185m 277	100	196	871
Calcium	ppm	ASTM D5185m 1514	2203	2181	1241
Phosphorus	ppm	ASTM D5185m 634	1044	1066	1069
Zinc	ppm	ASTM D5185m 743	1242	1375	1281
Sulfur	ppm	ASTM D5185m 2592	4055	3653	3716

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	5	10	5
Sodium	ppm	ASTM D5185m	5	24	3
Potassium	ppm	ASTM D5185m >20	<1	3	2

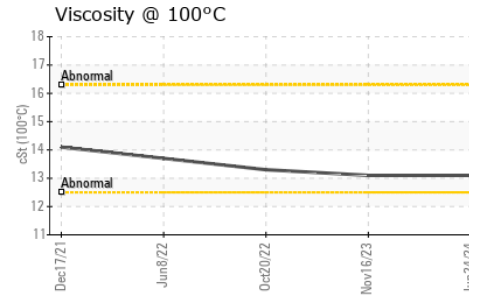
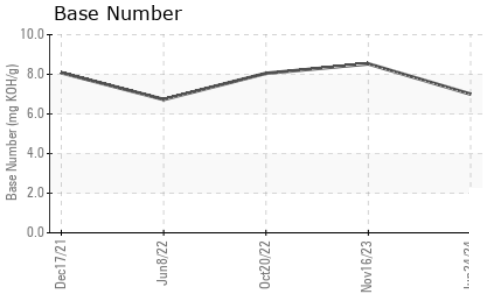
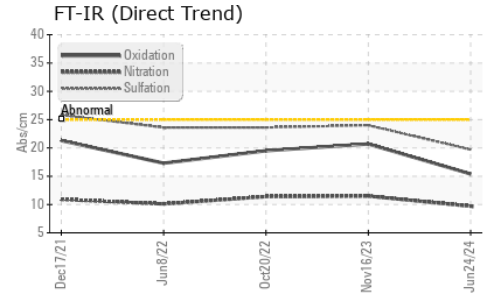
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.4	0.7	0.6
Nitration	Abs/cm	*ASTM D7624 >20	9.7	11.5	11.4
Sulfation	Abs/.1mm	*ASTM D7415 >30	19.7	24.0	23.6

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	15.4	20.7	19.5
Base Number (BN)	mg KOH/g	ASTM D2896	7.0	8.53	8.05

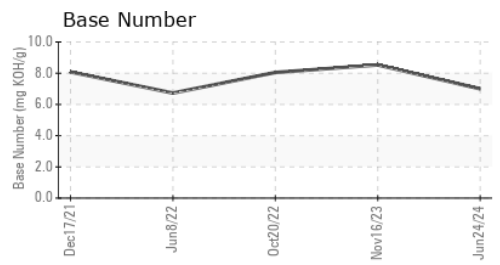
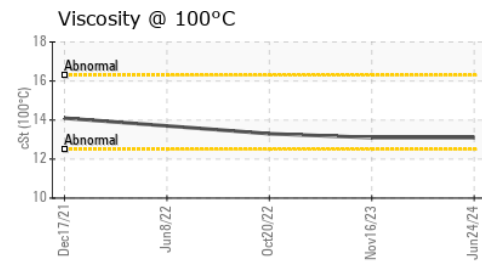
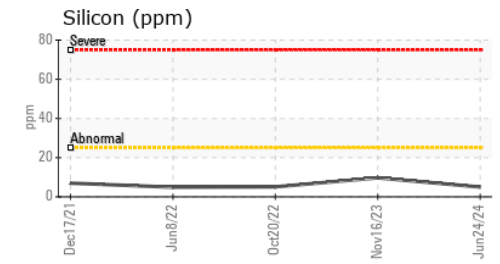
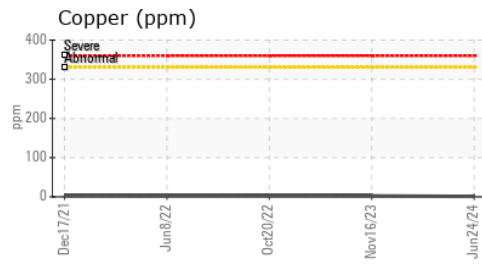
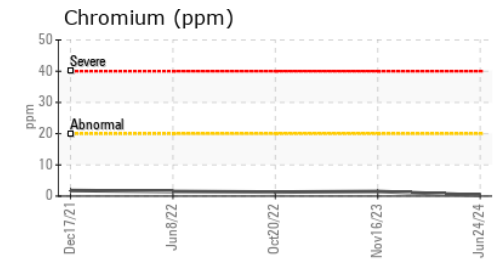
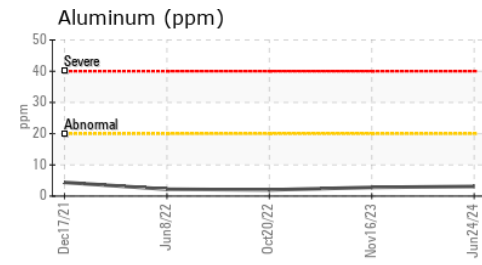
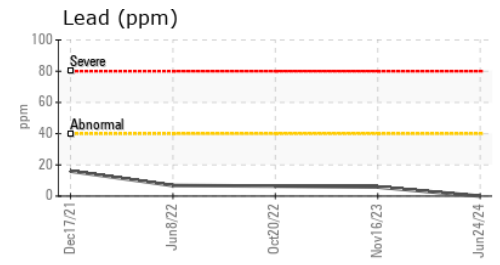
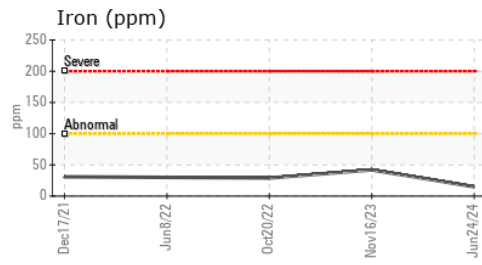
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	13.1	13.1	13.3

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0098498 **Received** : 01 Jul 2024
Lab Number : 06225579 **Tested** : 03 Jul 2024
Unique Number : 11103776 **Diagnosed** : 03 Jul 2024 - Wes Davis
Test Package : MOB 2

CONSTRUCTION SERVICES
 2420 BOSTON RD
 WILBRAHAM, MA
 US 01095
 Contact: Michael Dupuis
 mdupuis@cs-ma.us
 T: (413)733-6331
 F:

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)