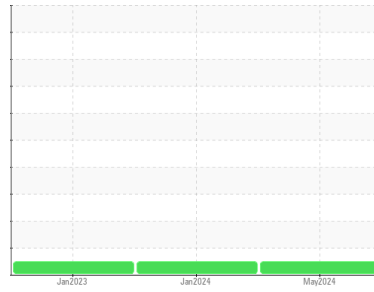


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

2324

Component

Diesel Engine

Fluid

DIESEL ENGINE OIL SAE 5W30 (--- 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 acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			HRE0000211	WC0876672	WC0717328
Sample Date	Client Info			30 May 2024	09 Jan 2024	23 Jan 2023
Machine Age	mls	Client Info		209054	176375	56009
Oil Age	mls	Client Info		50000	50000	50000
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	22	83	67
Chromium	ppm	ASTM D5185m	>20	<1	1	<1
Nickel	ppm	ASTM D5185m	>4	<1	<1	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	<1	<1
Aluminum	ppm	ASTM D5185m	>20	4	18	44
Lead	ppm	ASTM D5185m	>40	0	11	<1
Copper	ppm	ASTM D5185m	>330	4	17	29
Tin	ppm	ASTM D5185m	>15	0	2	2
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		2	0	0

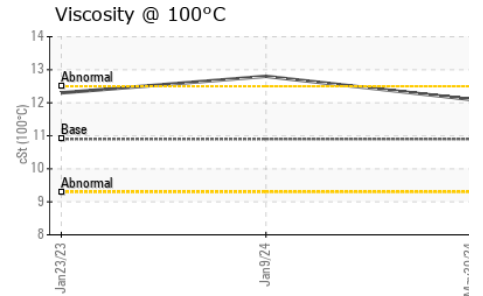
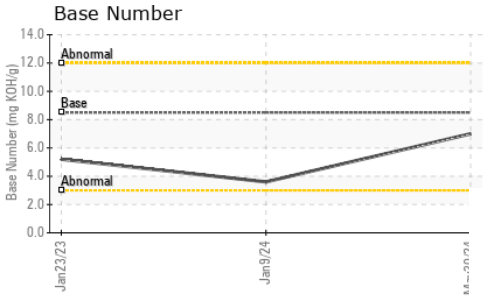
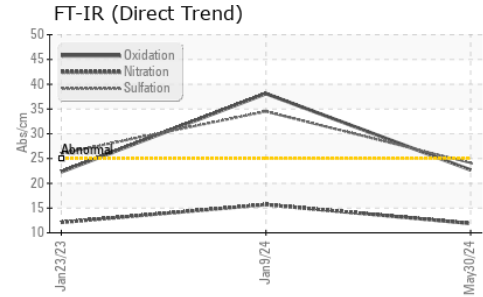
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	21	13	17
Barium	ppm	ASTM D5185m	10	0	0	<1
Molybdenum	ppm	ASTM D5185m	100	65	65	22
Manganese	ppm	ASTM D5185m		1	2	2
Magnesium	ppm	ASTM D5185m	450	1154	1290	886
Calcium	ppm	ASTM D5185m	3000	956	1060	1270
Phosphorus	ppm	ASTM D5185m	1150	1063	1272	790
Zinc	ppm	ASTM D5185m	1350	1313	1582	1017
Sulfur	ppm	ASTM D5185m	4250	3580	3374	3491

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	11	18	14
Sodium	ppm	ASTM D5185m		7	5	5
Potassium	ppm	ASTM D5185m	>20	12	39	115

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.8	0.3
Nitration	Abs/cm	*ASTM D7624	>20	11.9	15.7	12.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.1	34.5	26.0

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.7	38.1	22.3
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	7.0	3.6	5.2

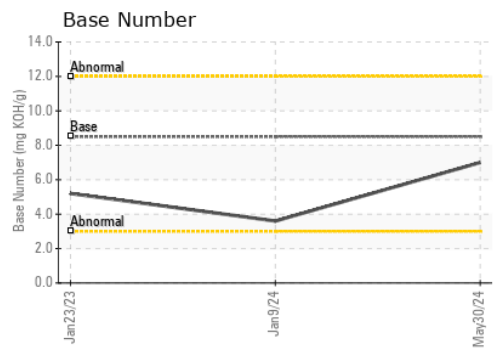
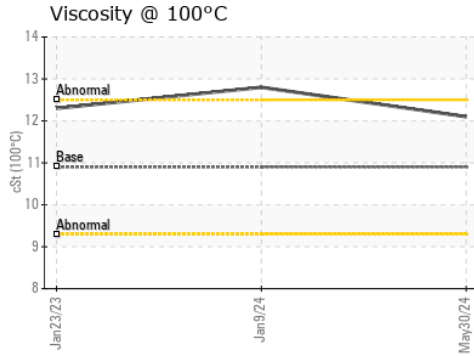
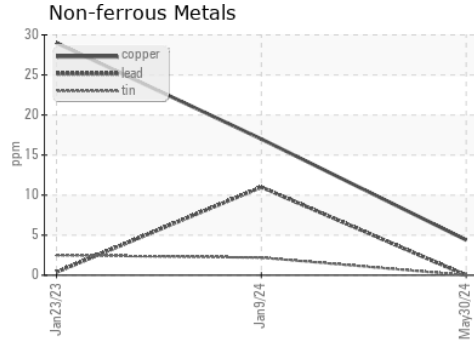
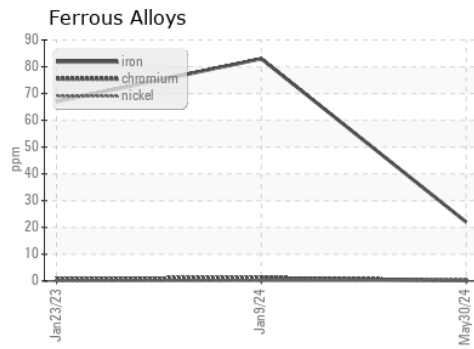
OIL ANALYSIS REPORT



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	10.9	12.1	12.8	12.3

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : HRE0000211 **Received** : 13 Jun 2024
Lab Number : 06209517 **Tested** : 17 Jun 2024
Unique Number : 11076978 **Diagnosed** : 17 Jun 2024 - Don Baldrige
Test Package : FLEET

MABE TRUCKING
 PO BOX 1081
 EDEN, NC
 US 27289

Certificate L2367 **Contact:** MAINTENANCE
 To discuss this sample report, contact Customer Service at 1-800-237-1369. maintenancemanager@mabetrucking.com
 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T:
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (336)635-1791