

OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

2302

Component

Diesel Engine

Fluid

DIESEL ENGINE OIL SAE 5W30 (--- QTS)

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	HRE0000215	---	---
Sample Date	Client Info	28 May 2024	---	---
Machine Age	mls	Client Info	295427	---
Oil Age	mls	Client Info	50000	---
Oil Changed	Client Info	Changed	---	---
Sample Status		NORMAL	---	---

CONTAMINATION method limit/base current history1 history2

Fuel	WC Method	>5	<1.0	---	---
Water	WC Method	>0.2	NEG	---	---
Glycol	WC Method		NEG	---	---

WEAR METALS method limit/base current history1 history2

Iron	ppm	ASTM D5185m	>100	71	---	---
Chromium	ppm	ASTM D5185m	>20	<1	---	---
Nickel	ppm	ASTM D5185m	>4	<1	---	---
Titanium	ppm	ASTM D5185m		<1	---	---
Silver	ppm	ASTM D5185m	>3	0	---	---
Aluminum	ppm	ASTM D5185m	>20	9	---	---
Lead	ppm	ASTM D5185m	>40	0	---	---
Copper	ppm	ASTM D5185m	>330	7	---	---
Tin	ppm	ASTM D5185m	>15	0	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
Cadmium	ppm	ASTM D5185m		2	---	---

ADDITIVES method limit/base current history1 history2

Boron	ppm	ASTM D5185m	250	11	---	---
Barium	ppm	ASTM D5185m	10	0	---	---
Molybdenum	ppm	ASTM D5185m	100	71	---	---
Manganese	ppm	ASTM D5185m		2	---	---
Magnesium	ppm	ASTM D5185m	450	1176	---	---
Calcium	ppm	ASTM D5185m	3000	984	---	---
Phosphorus	ppm	ASTM D5185m	1150	1061	---	---
Zinc	ppm	ASTM D5185m	1350	1333	---	---
Sulfur	ppm	ASTM D5185m	4250	3302	---	---

CONTAMINANTS method limit/base current history1 history2

Silicon	ppm	ASTM D5185m	>25	17	---	---
Sodium	ppm	ASTM D5185m		9	---	---
Potassium	ppm	ASTM D5185m	>20	19	---	---

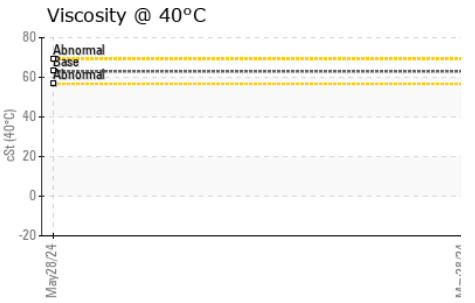
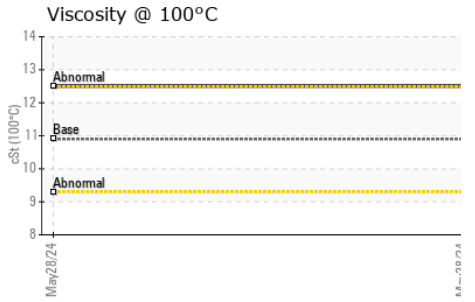
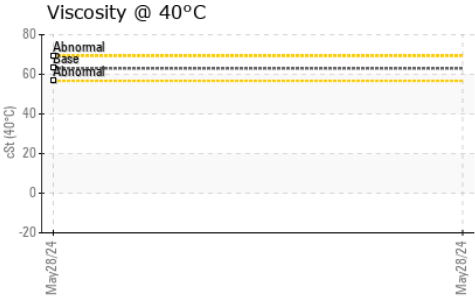
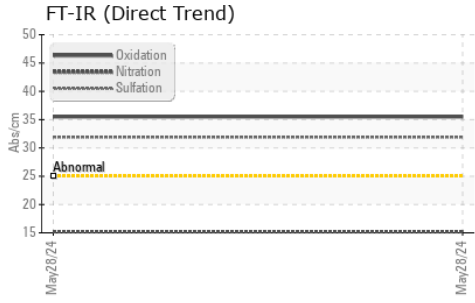
INFRA-RED method limit/base current history1 history2

Soot %	%	*ASTM D7844	>3	0.8	---	---
Nitration	Abs/cm	*ASTM D7624	>20	15.2	---	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	31.9	---	---

FLUID DEGRADATION method limit/base current history1 history2

Oxidation	Abs/.1mm	*ASTM D7414	>25	35.5	---	---
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	3.6	---	---

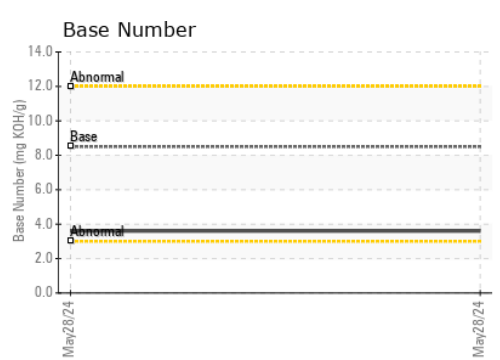
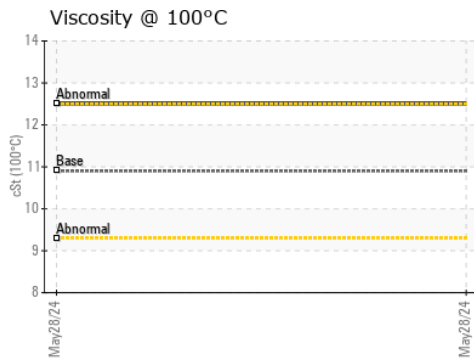
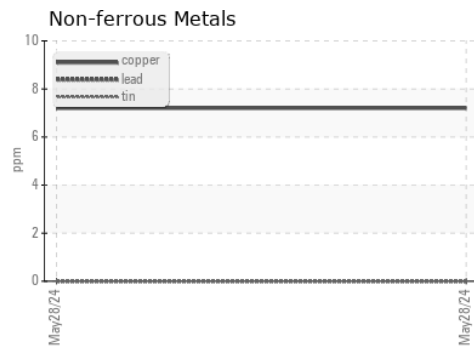
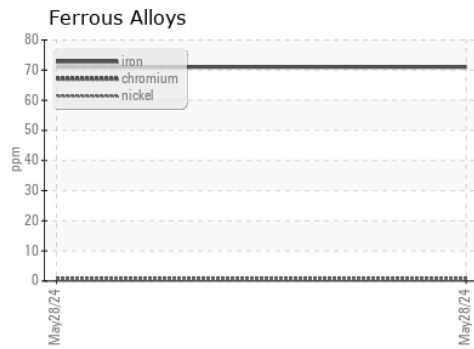
OIL ANALYSIS REPORT



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

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	10.9	12.5	---	---

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : HRE0000215 **Received** : 13 Jun 2024
Lab Number : **06209523** **Tested** : 17 Jun 2024
Unique Number : 11076984 **Diagnosed** : 17 Jun 2024 - Don Baldrige
Test Package : FLEET (Additional Tests: KV40)

MABE TRUCKING
 PO BOX 1081
 EDEN, NC
 US 27289

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) Contact: MAINTENANCE manager@mabetrucking.com T: (336)635-1791