



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
2204
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 5W30 (--- QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		HRE0000664	WC0836284	---
Sample Date		Client Info		27 Jun 2024	01 Sep 2023	---
Machine Age	mls	Client Info		306892	206988	---
Oil Age	mls	Client Info		50000	50000	---
Filter Age	mls	Client Info		50000	50000	---
Oil Changed		Client Info		Changed	N/A	---
Filter Changed		Client Info		Changed	N/A	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	64	86	---
Chromium	ppm	ASTM D5185m	>20	<1	1	---
Nickel	ppm	ASTM D5185m	>4	0	<1	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m	>3	<1	<1	---
Aluminum	ppm	ASTM D5185m	>20	13	25	---
Lead	ppm	ASTM D5185m	>40	0	<1	---
Copper	ppm	ASTM D5185m	>330	4	7	---
Tin	ppm	ASTM D5185m	>15	<1	2	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

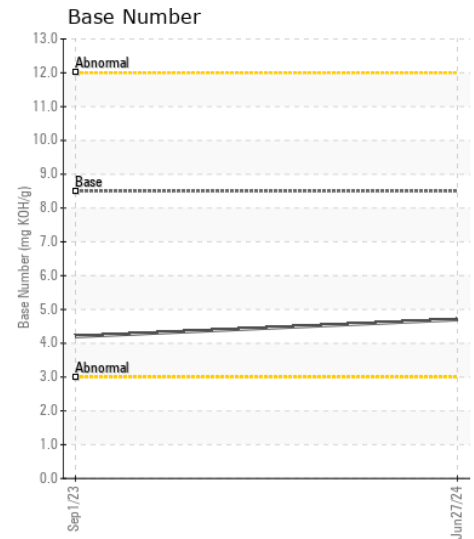
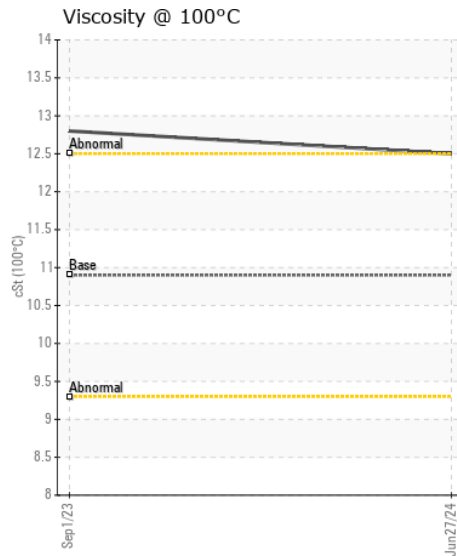
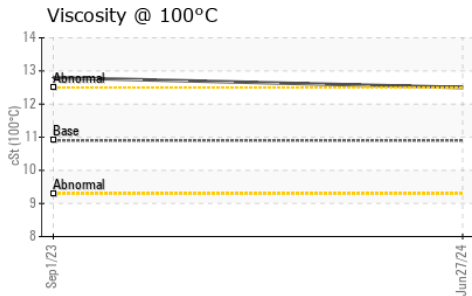
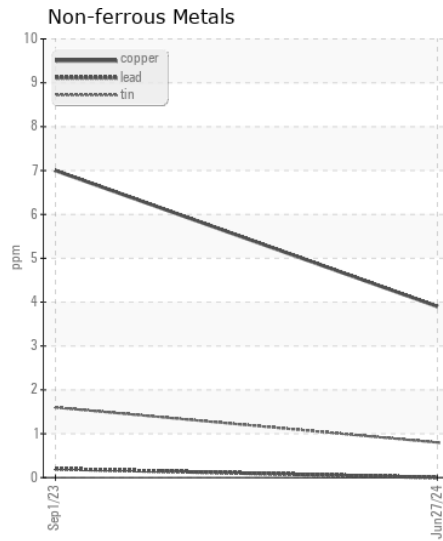
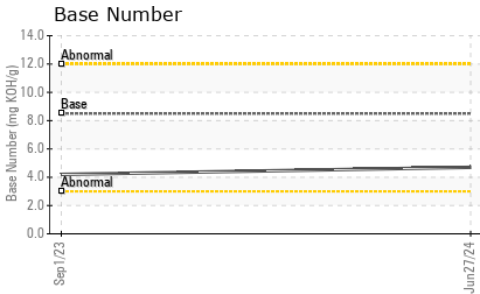
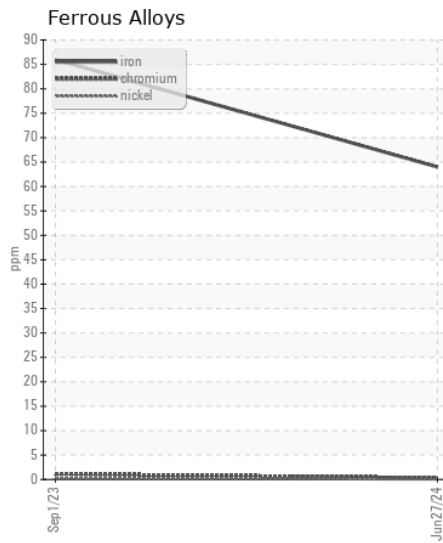
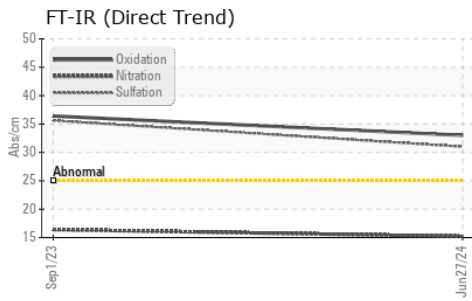
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	18	16	---
Potassium	ppm	ASTM D5185m	>20	26	55	---
Fuel		WC Method	>5	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.8	0.2	---
Nitration	Abs/cm	*ASTM D7624	>20	15.2	16.4	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	31.0	35.6	---
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	---

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.

Sodium	ppm	ASTM D5185m		6	7	---
Boron	ppm	ASTM D5185m	250	13	14	---
Barium	ppm	ASTM D5185m	10	0	0	---
Molybdenum	ppm	ASTM D5185m	100	68	68	---
Manganese	ppm	ASTM D5185m		1	2	---
Magnesium	ppm	ASTM D5185m	450	1211	1280	---
Calcium	ppm	ASTM D5185m	3000	955	1012	---
Phosphorus	ppm	ASTM D5185m	1150	1188	1176	---
Zinc	ppm	ASTM D5185m	1350	1430	1482	---
Sulfur	ppm	ASTM D5185m	4250	3723	3811	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	33.0	36.4	---
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	4.7	4.2	---
Visc @ 100°C	cSt	ASTM D445	10.9	12.5	12.8	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : HRE0000664

Lab Number : 06227235

Unique Number : 11110728

Test Package : FLEET

Received : 03 Jul 2024

Tested : 06 Jul 2024

Diagnosed : 06 Jul 2024 - Don Baldrige

MABE TRUCKING

PO BOX 1081

EDEN, NC

US 27289

Contact: MAINTENANCE

maintenancemanager@mabetrucking.com

T:

F: (336)635-1791

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)