



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

Area

[CONHER]

Machine Id

FREIGHTLINER UM - TRSM TM-245 (Sencillo)

Component

Diesel Engine

Fluid

MOBIL 15W40 (42 LTR)

## RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KL0014590	---	---
Sample Date		Client Info		13 Jun 2024	---	---
Machine Age	kms	Client Info		683592	---	---
Oil Age	kms	Client Info		46573	---	---
Filter Age	kms	Client Info		46573	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				ATTENTION	---	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>65	23	---	---
Chromium	ppm	ASTM D5185m	>5	1	---	---
Nickel	ppm	ASTM D5185m	>3	<1	---	---
Titanium	ppm	ASTM D5185m	>5	<1	---	---
Silver	ppm	ASTM D5185m	>2	0	---	---
Aluminum	ppm	ASTM D5185m	>35	2	---	---
Lead	ppm	ASTM D5185m	>10	0	---	---
Copper	ppm	ASTM D5185m	>180	4	---	---
Tin	ppm	ASTM D5185m	>8	0	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

## CONTAMINATION

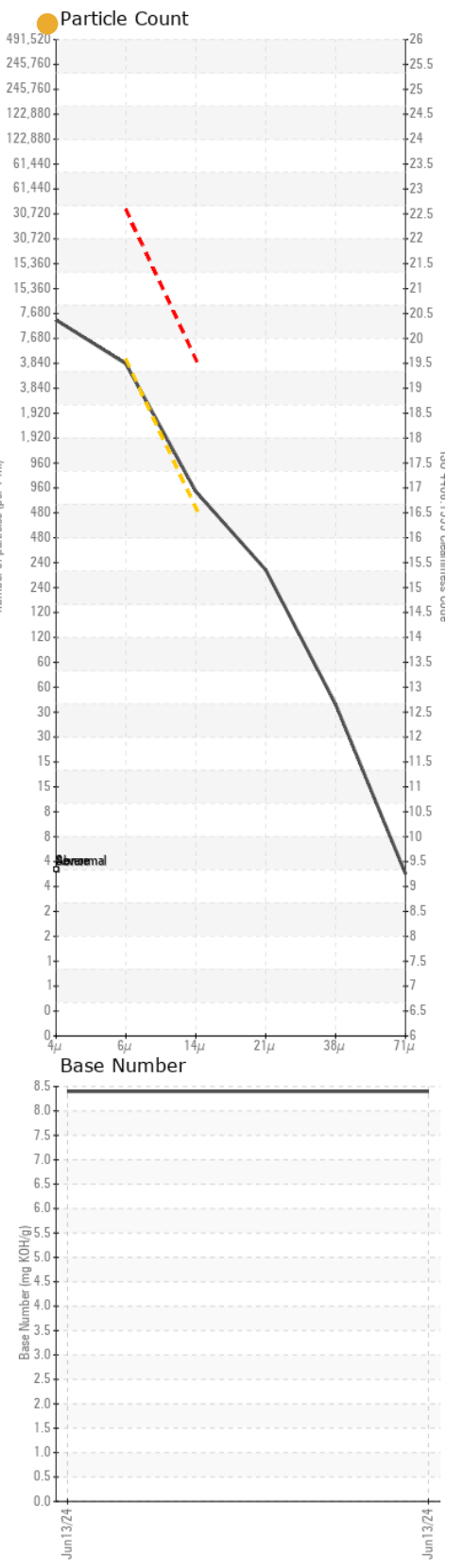
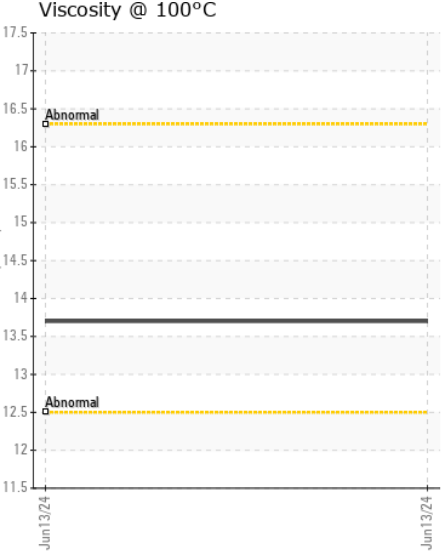
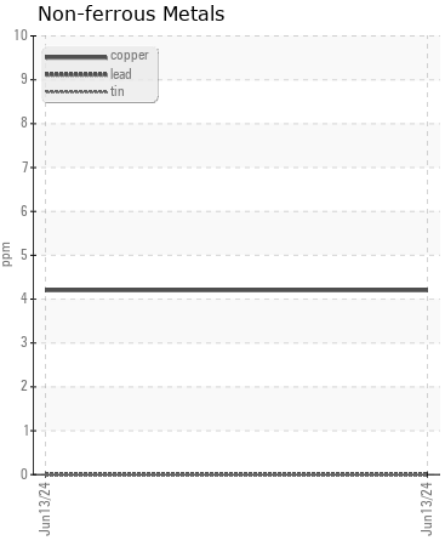
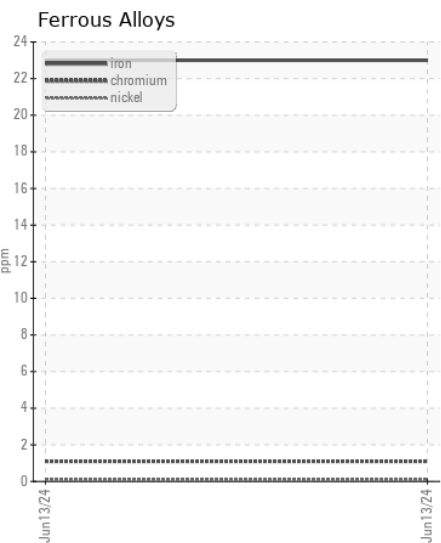
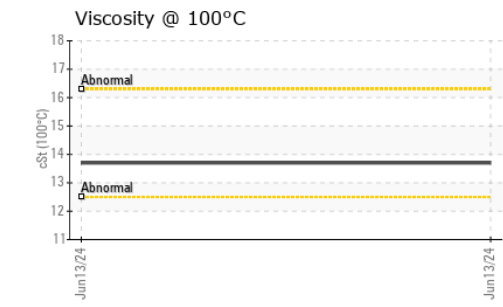
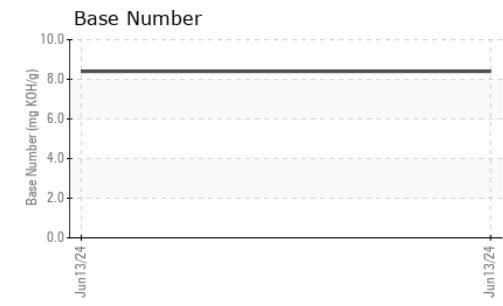
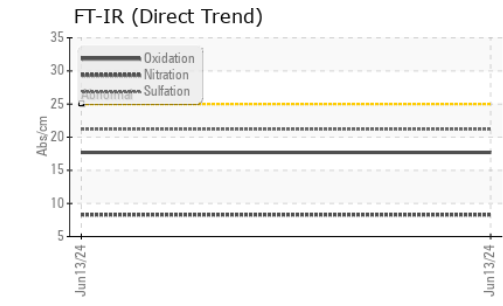
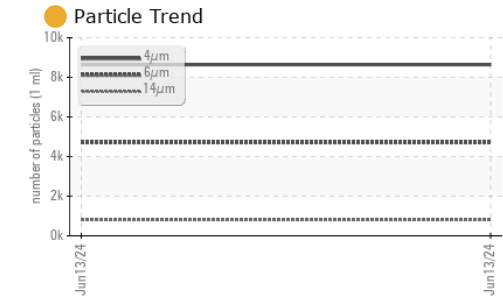
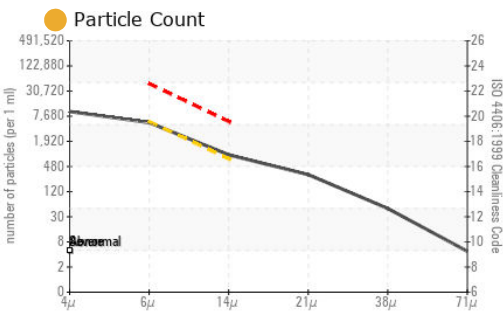
There is a moderate amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>15	6	---	---
Potassium	ppm	ASTM D5185m	>20	0	---	---
Fuel		WC Method	>3.0	<1.0	---	---
Water		WC Method	>0.2	NEG	---	---
Glycol		WC Method		NEG	---	---
Soot %	%	*ASTM D7844	>3	0.5	---	---
Nitration	Abs/cm	*ASTM D7624	>20	8.3	---	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.2	---	---
Particles >4µm		ASTM D7647		8639	---	---
Particles >6µm		ASTM D7647	>5000	4706	---	---
Particles >14µm		ASTM D7647	>640	801	---	---
Particles >21µm		ASTM D7647	>160	270	---	---
Particles >38µm		ASTM D7647	>40	42	---	---
Particles >71µm		ASTM D7647	>10	4	---	---
Oil Cleanliness		ISO 4406 (c)	>19/16	19/17	---	---
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	---	---

## 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.

Sodium	ppm	ASTM D5185m	>118	1	---	---
Boron	ppm	ASTM D5185m		2	---	---
Barium	ppm	ASTM D5185m		0	---	---
Molybdenum	ppm	ASTM D5185m		68	---	---
Manganese	ppm	ASTM D5185m		<1	---	---
Magnesium	ppm	ASTM D5185m		1092	---	---
Calcium	ppm	ASTM D5185m		1240	---	---
Phosphorus	ppm	ASTM D5185m		1083	---	---
Zinc	ppm	ASTM D5185m		1396	---	---
Sulfur	ppm	ASTM D5185m		3469	---	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.7	---	---
Base Number (BN)	mg KOH/g	ASTM D2896		8.40	---	---
Visc @ 100°C	cSt	ASTM D445		13.7	---	---



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KL0014590 **Received** : 20 Jun 2024  
**Lab Number** : 06215920 **Tested** : 22 Jun 2024  
**Unique Number** : 11088784 **Diagnosed** : 23 Jun 2024 - Don Baldrige  
**Test Package** : MOB 2 ( Additional Tests: PrtCount )

**CONOR**  
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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)