



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Area  
**OKLAHOMA/102/EG - MOTOR GRADER**  
Machine Id  
**78.252 [OKLAHOMA^102^EG - MOTOR GRADER]**  
Component  
**Rear Right Drive Chain Case**  
Fluid  
**MOBIL MOBILTRANS AST 30 (--- GAL)**

## RECOMMENDATION

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0832394	---	---
Sample Date		Client Info		14 May 2024	---	---
Machine Age	hrs	Client Info		8182	---	---
Oil Age	hrs	Client Info		8182	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				ABNORMAL	---	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	112	---	---
Chromium	ppm	ASTM D5185m	>10	0	---	---
Nickel	ppm	ASTM D5185m	>10	0	---	---
Titanium	ppm	ASTM D5185m		<1	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m		3	---	---
Lead	ppm	ASTM D5185m		0	---	---
Copper	ppm	ASTM D5185m		0	---	---
Tin	ppm	ASTM D5185m		<1	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

## CONTAMINATION

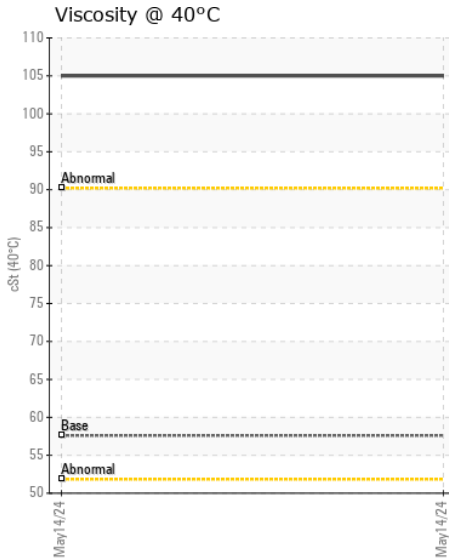
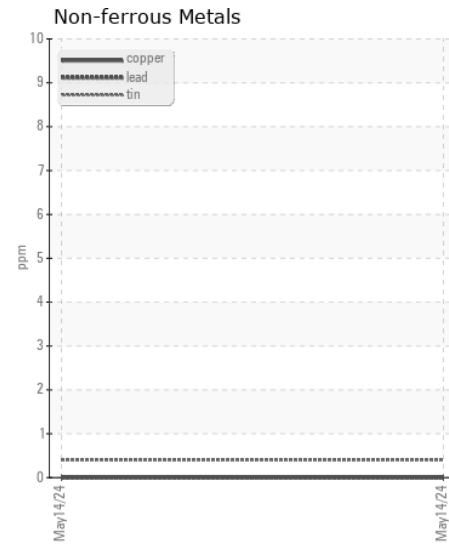
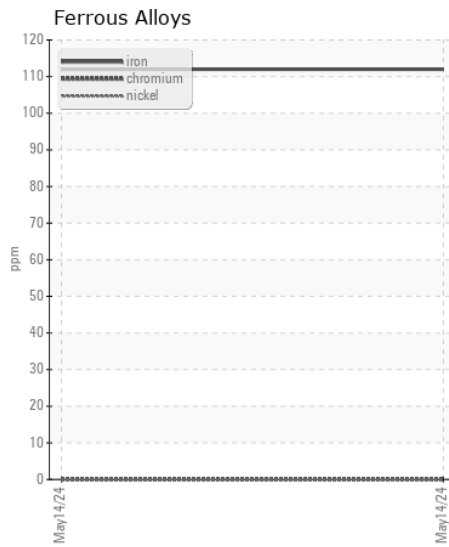
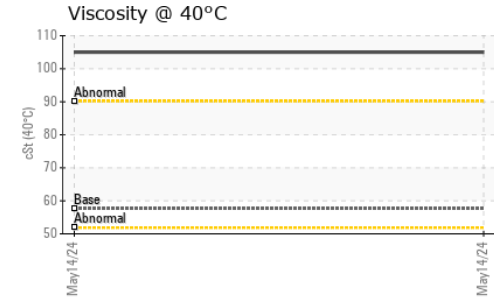
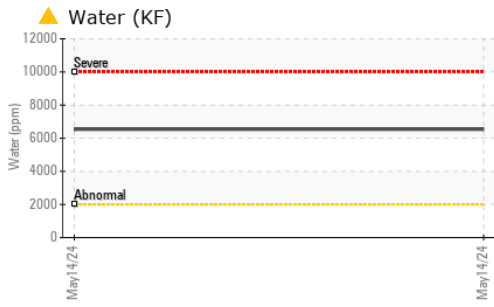
There is a moderate concentration of water present in the oil.

Silicon	ppm	ASTM D5185m		16	---	---
Potassium	ppm	ASTM D5185m	>20	1	---	---
Water	%	ASTM D6304	>0.2	▲ 0.654	---	---
ppm Water	ppm	ASTM D6304	>2000	▲ 6540	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	HAZY	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.2	▲ 0.2%	---	---

## FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		3	---	---
Boron	ppm	ASTM D5185m		34	---	---
Barium	ppm	ASTM D5185m		0	---	---
Molybdenum	ppm	ASTM D5185m		0	---	---
Manganese	ppm	ASTM D5185m		2	---	---
Magnesium	ppm	ASTM D5185m		10	---	---
Calcium	ppm	ASTM D5185m		2434	---	---
Phosphorus	ppm	ASTM D5185m		1034	---	---
Zinc	ppm	ASTM D5185m		1196	---	---
Sulfur	ppm	ASTM D5185m		6331	---	---
Visc @ 40°C	cSt	ASTM D445	57.6	105	---	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0832394 **Received** : 22 May 2024  
**Lab Number** : 06188038 **Tested** : 24 May 2024  
**Unique Number** : 11044790 **Diagnosed** : 24 May 2024 - Sean Felton  
**Test Package** : CONST ( Additional Tests: KF )

**SHERWOOD CONSTRUCTION CO INC**  
 3219 WEST MAY ST  
 WICHITA, KS  
 US 67213  
 Contact: DOUG KING  
 doug.king@sherwood.net  
 T: (316)617-3161  
 F: x:

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)