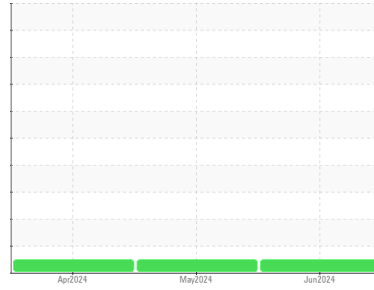




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
Whiteman WBH-16EF Whiteman Concrete Buggy (S/N 1904106)
 Component
1 Gasoline Engine
 Fluid
SCHAEFFER SUPREME 7000 SAE 10W30 (1 QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: Engine Oil Sample)

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		WC0868298	WC0868373	WC0904088
Sample Date	Client Info		05 Jun 2024	15 May 2024	23 Apr 2024
Machine Age	mths	Client Info	61	61	60
Oil Age	mths	Client Info	0	60	1
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			NORMAL	NORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>4.0	<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 >150	19	25	56
Chromium	ppm	ASTM D5185m >20	<1	<1	2
Nickel	ppm	ASTM D5185m >5	0	0	0
Titanium	ppm	ASTM D5185m	<1	0	<1
Silver	ppm	ASTM D5185m >2	0	0	0
Aluminum	ppm	ASTM D5185m >40	6	6	9
Lead	ppm	ASTM D5185m >50	0	<1	<1
Copper	ppm	ASTM D5185m >155	<1	0	0
Tin	ppm	ASTM D5185m >10	<1	<1	0
Vanadium	ppm	ASTM D5185m	<1	0	0
Cadmium	ppm	ASTM D5185m	<1	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	34	53	37
Barium	ppm	ASTM D5185m	0	0	<1
Molybdenum	ppm	ASTM D5185m 300	225	205	232
Manganese	ppm	ASTM D5185m	<1	<1	<1
Magnesium	ppm	ASTM D5185m 0	557	546	636
Calcium	ppm	ASTM D5185m 2025	1471	1637	1735
Phosphorus	ppm	ASTM D5185m 900	773	895	917
Zinc	ppm	ASTM D5185m 1000	1033	1138	1287
Sulfur	ppm	ASTM D5185m 2800	3443	4066	4345

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >30	10	12	16
Sodium	ppm	ASTM D5185m >400	6	3	2
Potassium	ppm	ASTM D5185m >20	2	1	2

INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624 >20	6.7	7.0	7.0
Sulfation	Abs/.1mm	*ASTM D7415 >30	15.4	15.7	15.2

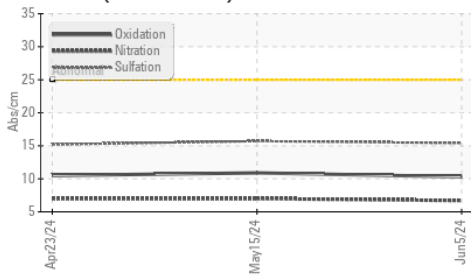
FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	10.3	10.9	10.5
Base Number (BN)	mg KOH/g	ASTM D2896 7.1	8.3	8.8	8.7

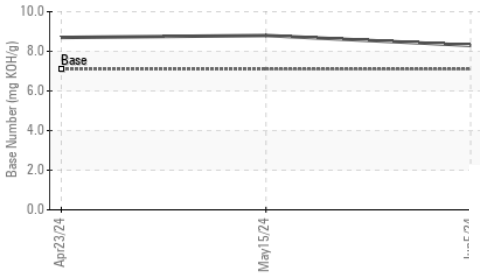


OIL ANALYSIS REPORT

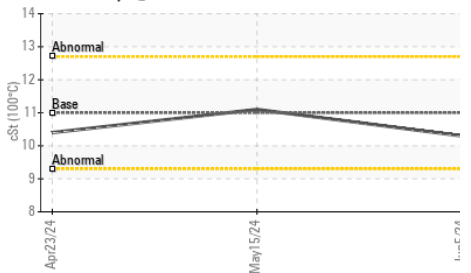
FT-IR (Direct Trend)



Base Number



Viscosity @ 100°C

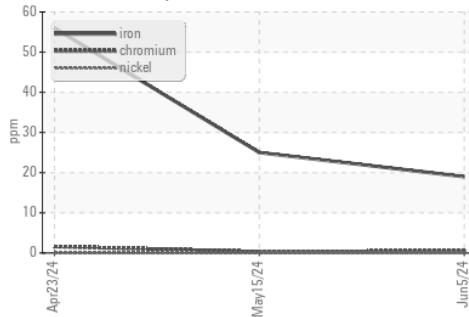


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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

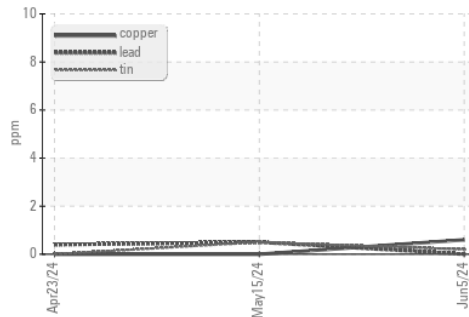
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445 11	10.3	11.1	10.4

GRAPHS

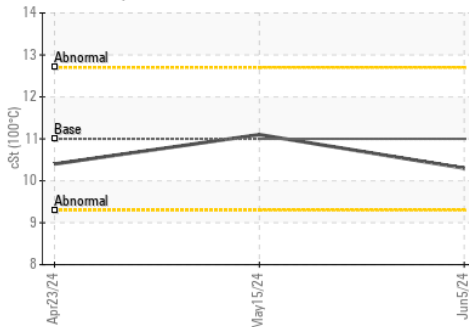
Ferrous Alloys



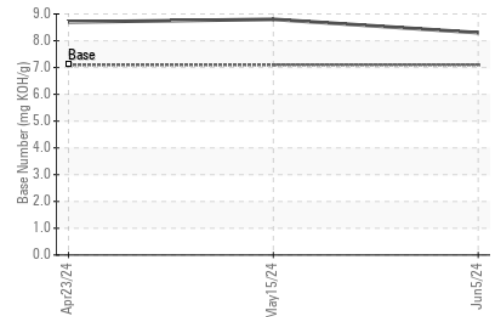
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0868298 **Received** : 11 Jun 2024
Lab Number : **06207290** **Tested** : 13 Jun 2024
Unique Number : 11074751 **Diagnosed** : 13 Jun 2024 - Angela Borella
Test Package : CONST (Additional Tests: TBN)

SHIMMICK CONSTRUCTION
 5535 TRAILHEAD DRIVE
 CHATTANOOGA, TN
 US 37415
 Contact: DANIEL LISELLA
 daniel.lisella@shimmick.com

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)

T:
F: