



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	MARGINAL
FLUID CONDITION	NORMAL

Machine Id
015-R0006
 Component
Swing Drive
 Fluid
SCHAEFFER 209 MOLY UNIVERSAL GEARLUBE ISO 220 (--- GAL)

RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. (Customer Sample Comment: Swing motor fluid sample.)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0903923	WC0904117	WC0750696
Sample Date		Client Info		15 May 2024	25 Mar 2024	11 Oct 2023
Machine Age	hrs	Client Info		6637	6362	5413
Oil Age	hrs	Client Info		4385	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Filter Changed		Client Info		N/A	Not Changd	Not Changd
Sample Status				MARGINAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>400	341	300	309
Chromium	ppm	ASTM D5185m	>10	3	2	2
Nickel	ppm	ASTM D5185m	>10	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>25	3	<1	2
Lead	ppm	ASTM D5185m	>50	<1	0	0
Copper	ppm	ASTM D5185m	>200	1	<1	0
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

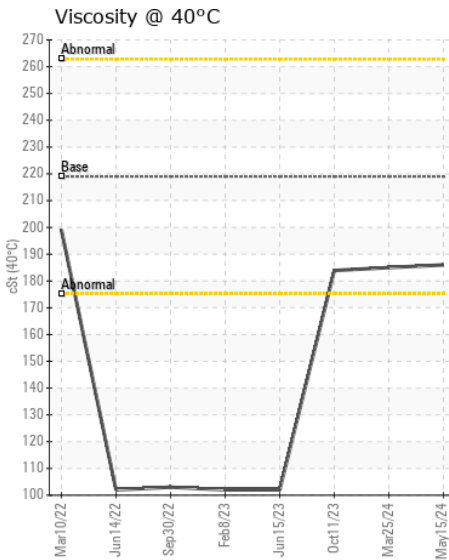
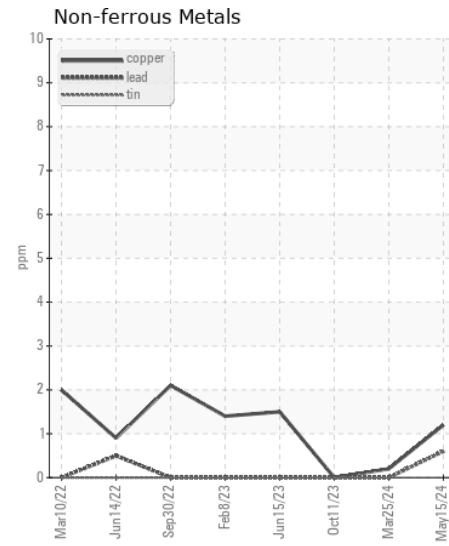
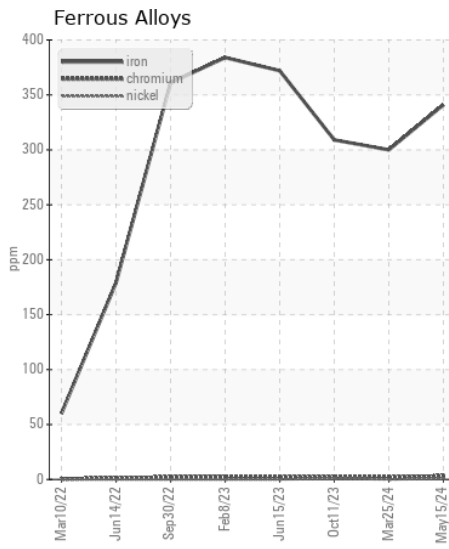
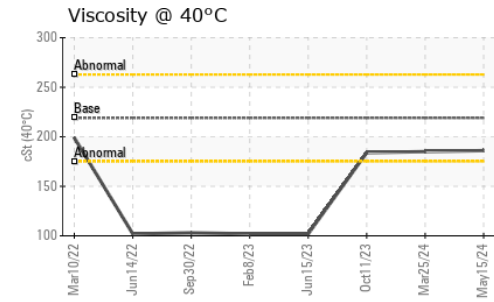
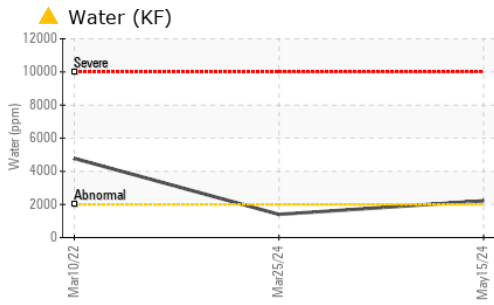
There is a light concentration of water present in the oil.

Silicon	ppm	ASTM D5185m	>50	8	4	6
Potassium	ppm	ASTM D5185m	>20	1	0	1
Water	%	ASTM D6304	>0.2	▲ 0.222	0.140	---
ppm Water	ppm	ASTM D6304	>2000	▲ 2220	1400	---
Silt	scalar	*Visual	NONE	NONE	MODER	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	HAZY	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	0.2%	0.2%	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		0	2	0
Boron	ppm	ASTM D5185m	65	4	2	13
Barium	ppm	ASTM D5185m		0	<1	<1
Molybdenum	ppm	ASTM D5185m	325	294	269	316
Manganese	ppm	ASTM D5185m		4	3	3
Magnesium	ppm	ASTM D5185m		1	0	6
Calcium	ppm	ASTM D5185m		22	16	18
Phosphorus	ppm	ASTM D5185m	875	712	602	710
Zinc	ppm	ASTM D5185m		14	11	13
Sulfur	ppm	ASTM D5185m	16000	22396	18170	19201
Visc @ 40°C	cSt	ASTM D445	219	186	185	183.9



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0903923
Lab Number : 06186968
Unique Number : 11043720
Test Package : CONST (Additional Tests: KF)
Received : 21 May 2024
Tested : 23 May 2024
Diagnosed : 23 May 2024 - Don Baldrige

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)

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