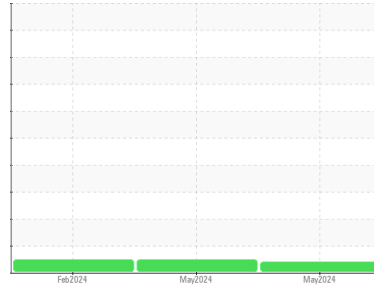




OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Area
[23256]
 Machine Id
Komatsu
 Component
Swing Drive
 Fluid
SHELL ROTELLA T 15W40 (14 QTS)

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The oil viscosity is lower than normal. Confirm oil type.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			WC0923423	WC0923423	WC0836166
Sample Date	Client Info			02 May 2024	02 May 2024	22 Feb 2024
Machine Age	hrs	Client Info		7304	7304	6585
Oil Age	hrs	Client Info		1000	1000	1000
Oil Changed	Client Info			Changed	Changed	Changed
Sample Status				ATTENTION	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>0.2	NEG	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>400	365	77	25
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	4	<1	2
Lead	ppm	ASTM D5185m	>50	0	0	<1
Copper	ppm	ASTM D5185m	>200	4	2	1
Tin	ppm	ASTM D5185m	>10	0	0	1
Vanadium	ppm	ASTM D5185m		<1	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	<1

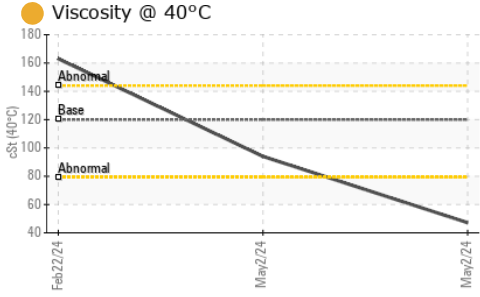
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	316	99	0	25
Barium	ppm	ASTM D5185m	0.0	1	6	0
Molybdenum	ppm	ASTM D5185m	1.2	1	<1	7
Manganese	ppm	ASTM D5185m		4	1	<1
Magnesium	ppm	ASTM D5185m	24	22	11	30
Calcium	ppm	ASTM D5185m	2292	2423	4024	3624
Phosphorus	ppm	ASTM D5185m	1064	1037	843	909
Zinc	ppm	ASTM D5185m	1160	1141	970	1105
Sulfur	ppm	ASTM D5185m	4996	4468	5789	7849

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	41	15	20
Sodium	ppm	ASTM D5185m		7	2	0
Potassium	ppm	ASTM D5185m	>20	0	1	2

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	MODER
Debris	scalar	*Visual	NONE	LIGHT	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG



OIL ANALYSIS REPORT



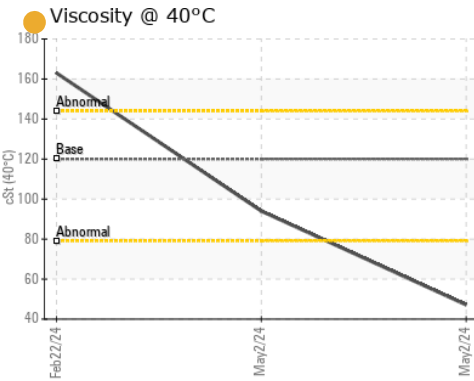
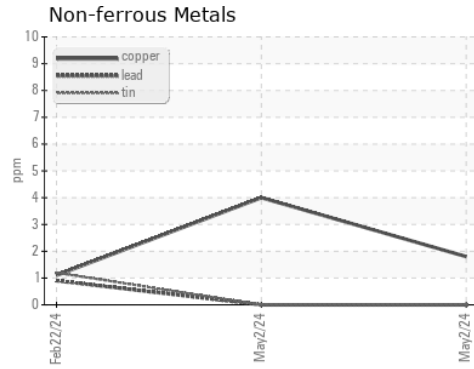
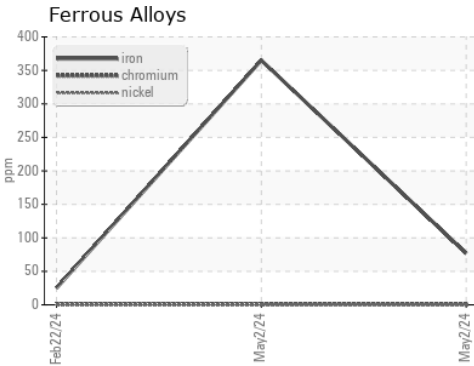
FLUID PROPERTIES

method	limit/base	current	history1	history2
Visc @ 40°C	cSt ASTM D445	120. ● 47.14	94.0	163

SAMPLE IMAGES

method	limit/base	current	history1	history2
Color			no image	no image
Bottom			no image	no image

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0923423 **Received** : 11 Jun 2024
Lab Number : 06207227 **Tested** : 14 Jun 2024
Unique Number : 11074688 **Diagnosed** : 18 Jun 2024 - Jonathan Hester
Test Package : CONST

MANHATTAN ROAD AND BRIDGE
 5601 S 122ND E AVE
 TULSA, OK 74146
 Contact: JAMES STEELMON
 james.steelmon@manhattanrb.com

Certificate L2367
 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)