



PERFORMANCE
UNDER
PRESSURE

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
LINE 1 BACK END
Machine Id
ALVEY HIGH SPEED PALLETIZER (S/N 01K-70119)
Component
Tank Hydraulic System
Fluid
ROYAL PURPLE SYNDRAULIC 32 (70 GAL)

RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RP203126	RP041377	RP47112
Sample Date		Client Info		14 Mar 2024	22 May 2010	30 May 2009
Machine Age	yrs	Client Info		0	0	6700
Oil Age	yrs	Client Info		0	12480	0
Filter Age	yrs	Client Info		0	6420	0
Oil Changed		Client Info		N/A	Not Changd	Changed
Filter Changed		Client Info		N/A	Not Changd	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL

WEAR

The copper level is abnormal. All other component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	0	<1	<1
Chromium	ppm	ASTM D5185m	>20	0	<1	0
Nickel	ppm	ASTM D5185m	>20	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	0	2
Lead	ppm	ASTM D5185m	>20	0	1	1
Copper	ppm	ASTM D5185m	>20	▲ 27	2	<1
Tin	ppm	ASTM D5185m	>20	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

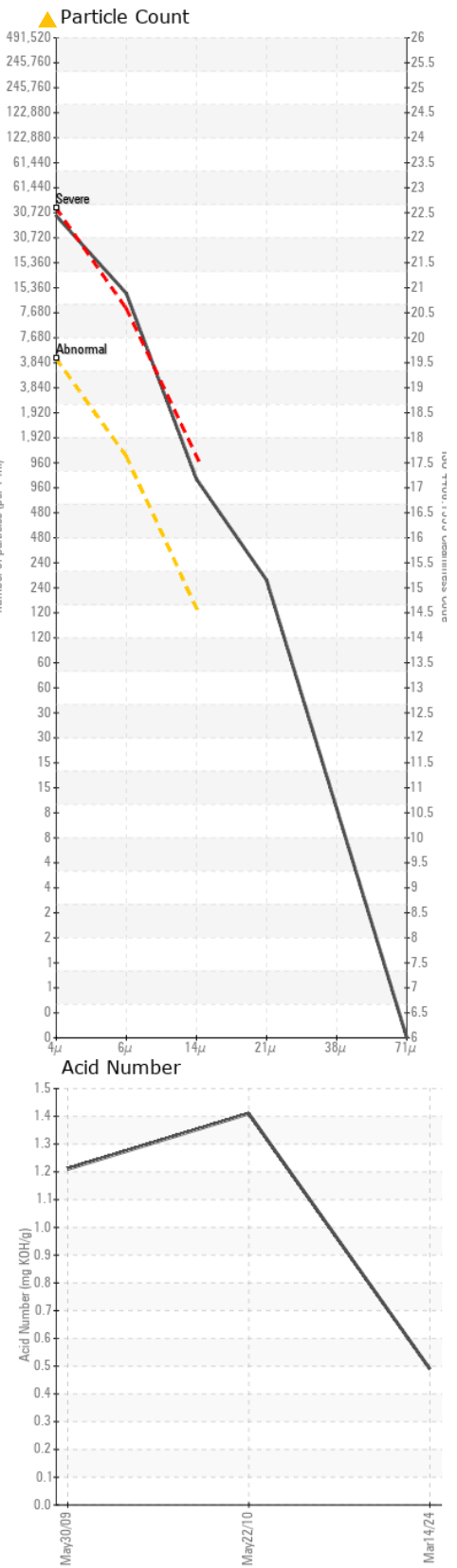
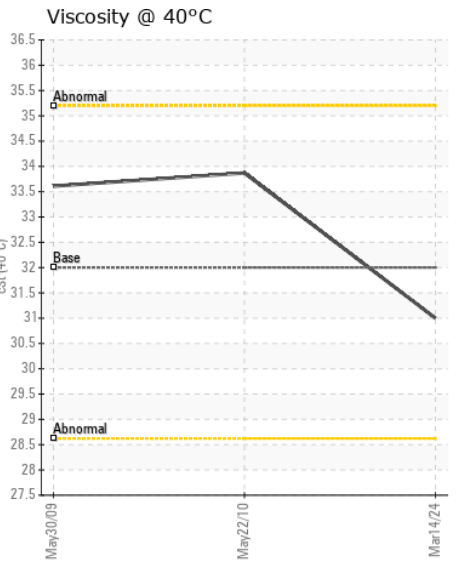
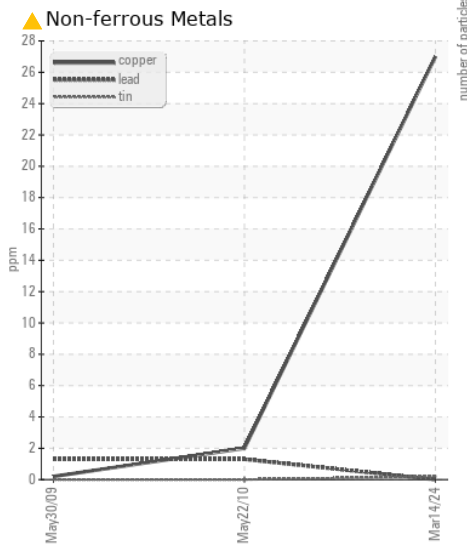
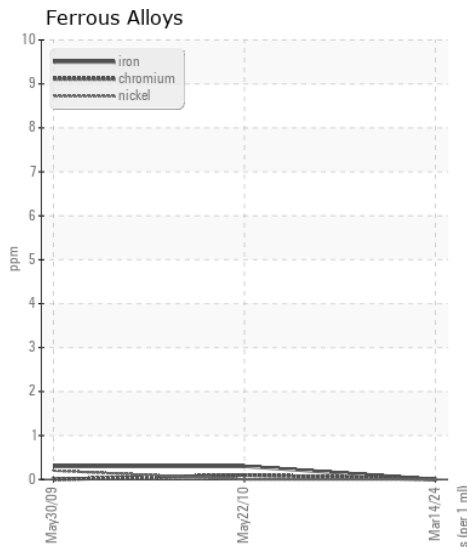
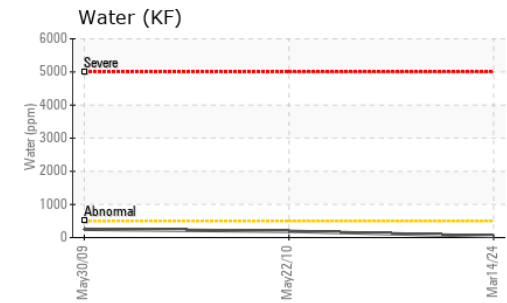
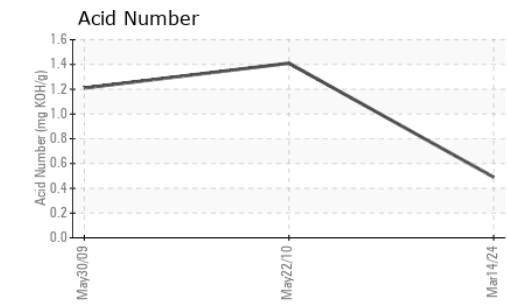
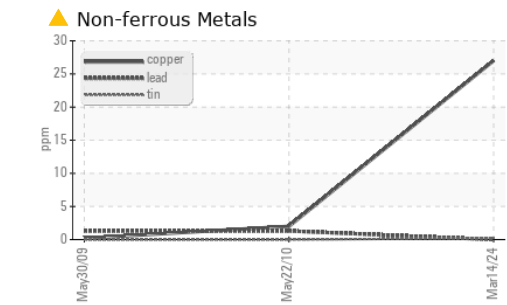
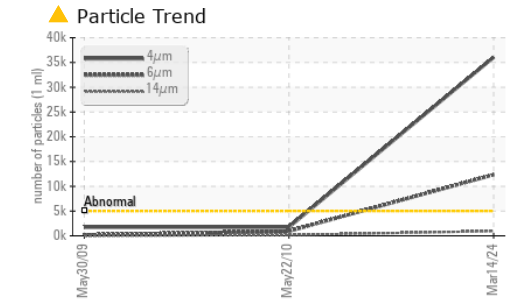
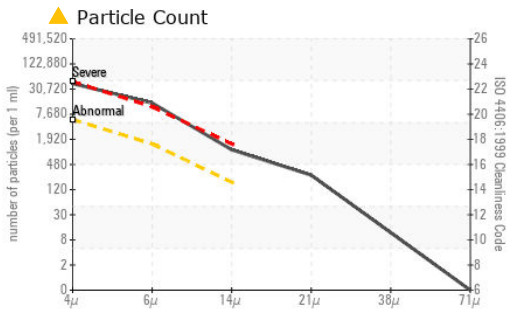
There is a high amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>15	<1	2	9
Potassium	ppm	ASTM D5185m	>20	0	0	2
Water	%	ASTM D6304	>0.05	0.003	0.019	0.025
ppm Water	ppm	ASTM D6304	>500	40	190	250
Particles >4µm		ASTM D7647	>5000	▲ 36033	1751	1750
Particles >6µm		ASTM D7647	>1300	▲ 12343	954	183
Particles >14µm		ASTM D7647	>160	▲ 949	▲ 162	16
Particles >21µm		ASTM D7647	>40	▲ 235	▲ 54	5
Particles >38µm		ASTM D7647	>10	10	▲ 8	1
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 22/21/17	▲ 18/17/15	18/15/11
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	LIGHT	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	>0.05	NEG	NEG	NEG

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		1	<1	0
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	<1	<1
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m		0	<1	0
Calcium	ppm	ASTM D5185m		53	166	161
Phosphorus	ppm	ASTM D5185m		365	723	608
Zinc	ppm	ASTM D5185m		404	851	859
Acid Number (AN)	mg KOH/g	ASTM D8045		0.49	1.41	1.21
Visc @ 40°C	cSt	ASTM D445	32.0	31.00	33.87	33.61



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : RP203126
 Lab Number : 06123616
 Unique Number : 10937767
 Test Package : IND 2

Received : 20 Mar 2024
 Tested : 27 Mar 2024
 Diagnosed : 27 Mar 2024 - Jonathan Hester

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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)