



PERFORMANCE
UNDER
PRESSURE

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
LINE 2 BACK END
Machine Id
ALVEY LOW SPEED PALLETIZER (S/N 01-EK41119)
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		RP157809	RP041373	RP47345
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	6240	0
Oil Changed		Client Info		N/A	Not Changd	Changed
Filter Changed		Client Info		N/A	Not Changd	N/A
Sample Status				ABNORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	0	<1	<1
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>20	0	0	0
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	2
Copper	ppm	ASTM D5185m	>20	5	5	5
Tin	ppm	ASTM D5185m	>20	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	VLITE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

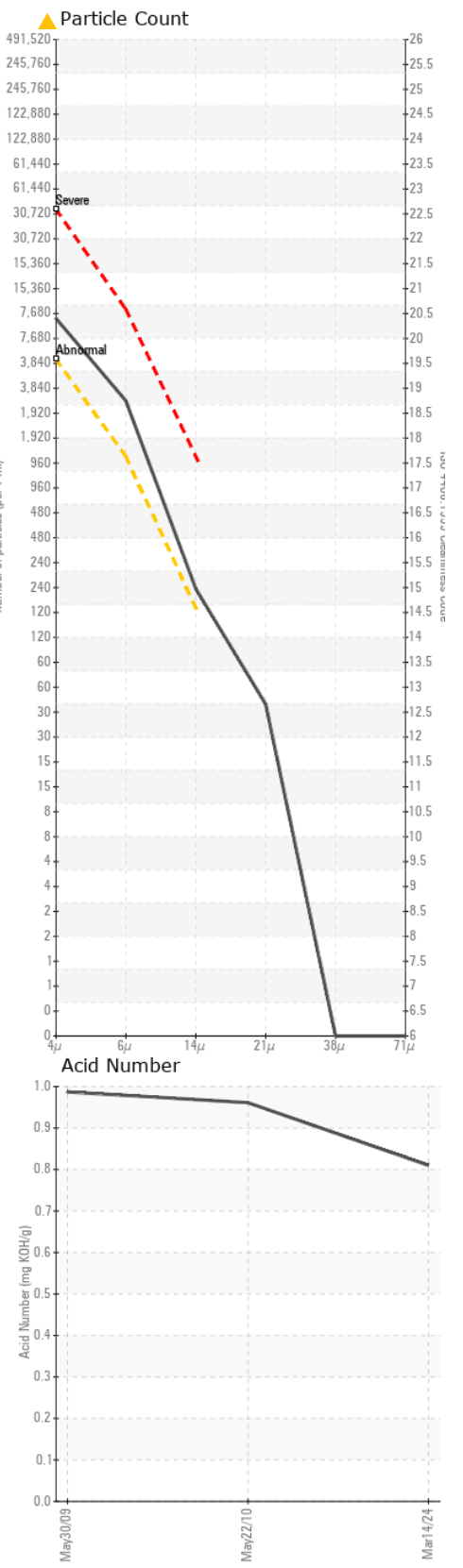
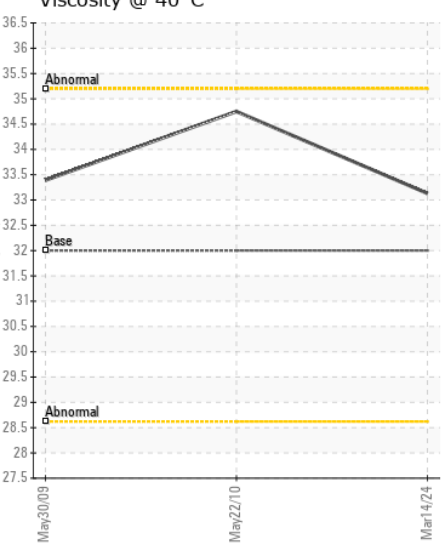
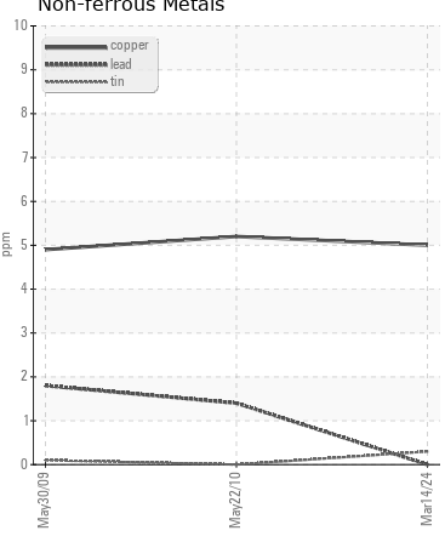
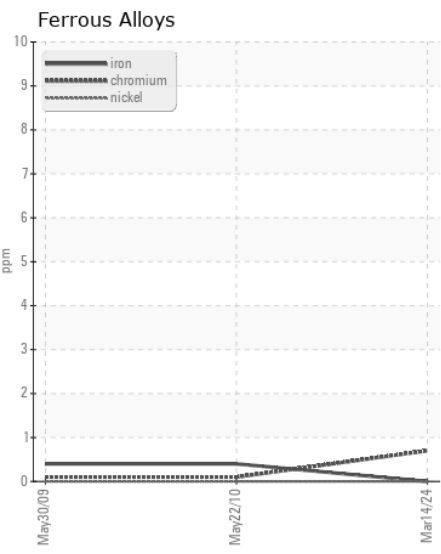
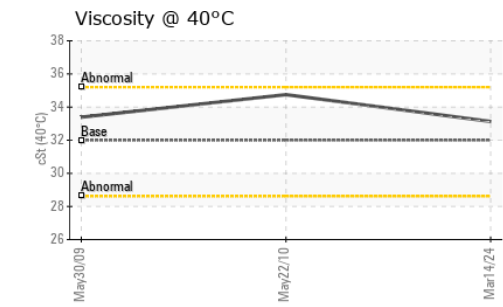
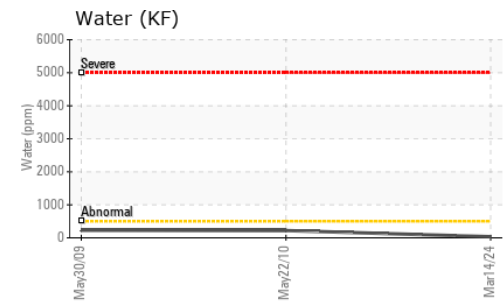
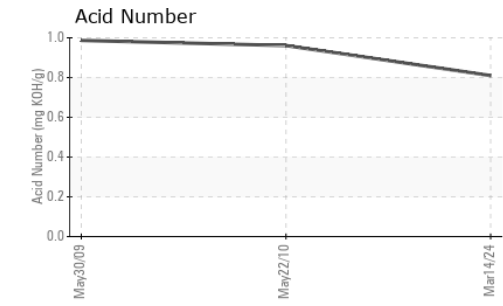
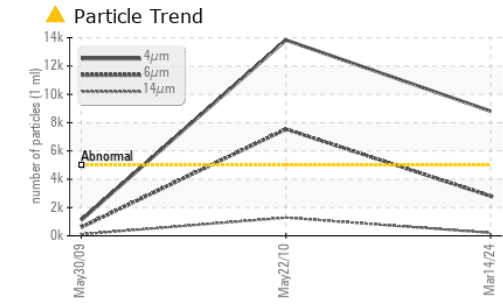
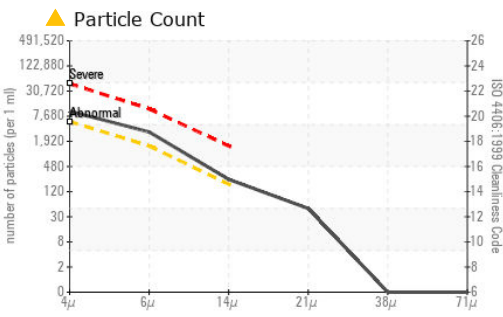
There is a high amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>15	<1	2	3
Potassium	ppm	ASTM D5185m	>20	0	1	0
Water	%	ASTM D6304	>0.05	0.003	0.022	0.023
ppm Water	ppm	ASTM D6304	>500	34	220	230
Particles >4µm		ASTM D7647	>5000	▲ 8809	13835	1111
Particles >6µm		ASTM D7647	>1300	▲ 2809	▲ 7537	605
Particles >14µm		ASTM D7647	>160	▲ 208	▲ 1284	103
Particles >21µm		ASTM D7647	>40	▲ 42	▲ 433	34
Particles >38µm		ASTM D7647	>10	0	▲ 66	5
Particles >71µm		ASTM D7647	>3	0	▲ 6	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 20/19/15	▲ 21/20/17	17/16/14
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	LIGHT
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		<1	<1	<1
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m		1	1	0
Calcium	ppm	ASTM D5185m		152	193	160
Phosphorus	ppm	ASTM D5185m		664	696	659
Zinc	ppm	ASTM D5185m		820	830	858
Acid Number (AN)	mg KOH/g	ASTM D8045		0.81	0.961	0.987
Visc @ 40°C	cSt	ASTM D445	32.0	33.13	34.75	33.39



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP157809 **Received** : 20 Mar 2024
Lab Number : 06123617 **Tested** : 27 Mar 2024
Unique Number : 10937768 **Diagnosed** : 27 Mar 2024 - Jonathan Hester
Test Package : IND 2

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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)