



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
DEMAG PRESS 31 (S/N 7133-071)
 Component
Hydraulic System
 Fluid
AW HYDRAULIC OIL ISO 46 (60 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0819560	WC0534558	WC0430857
Sample Date		Client Info		15 Jun 2023	06 Jun 2022	27 Feb 2021
Machine Age		Client Info		0	0	0
Oil Age		Client Info		0	0	0
Filter Age		Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ATTENTION	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	7	8	7
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
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	2	<1	0
Lead	ppm	ASTM D5185m	>20	0	0	<1
Copper	ppm	ASTM D5185m	>20	2	4	4
Tin	ppm	ASTM D5185m	>20	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

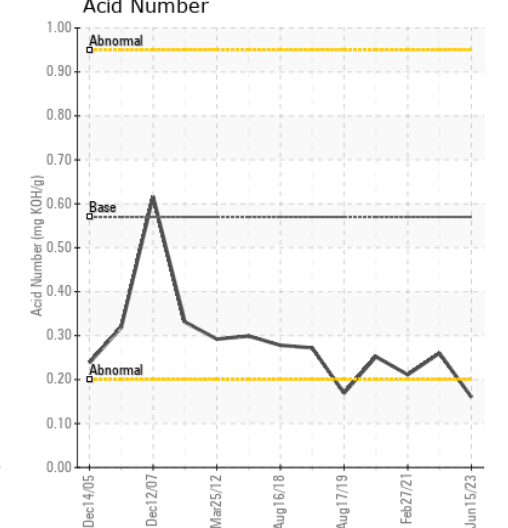
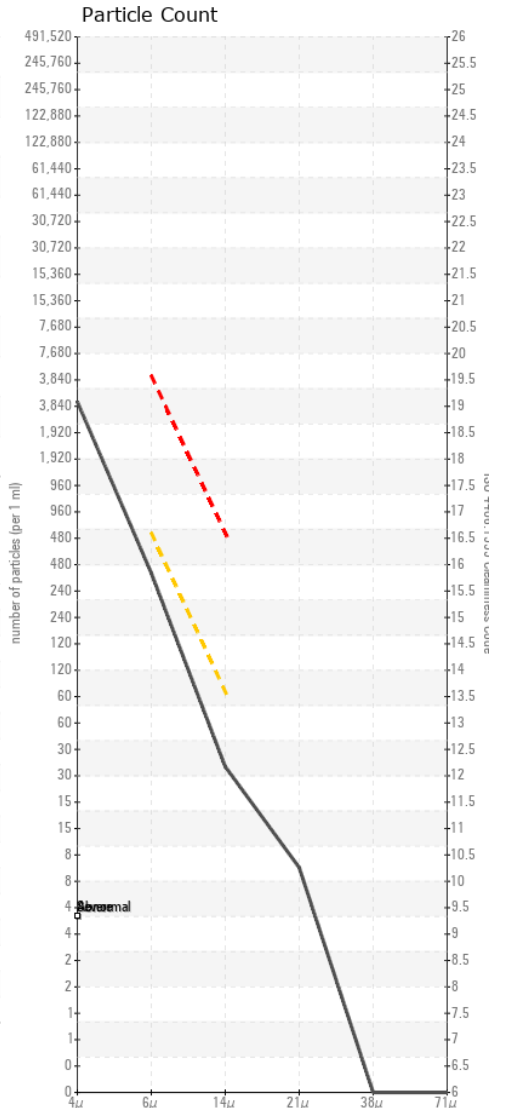
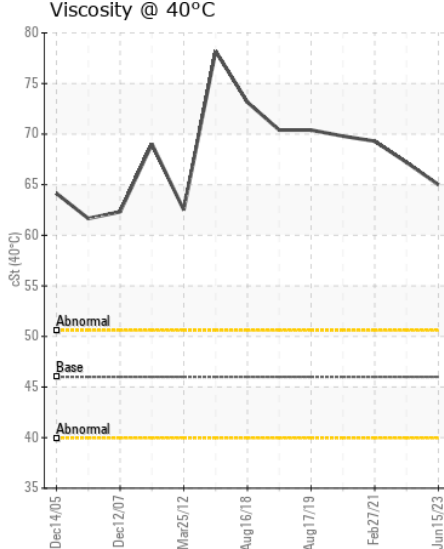
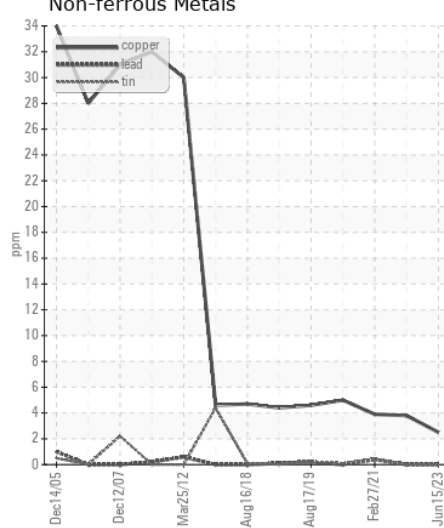
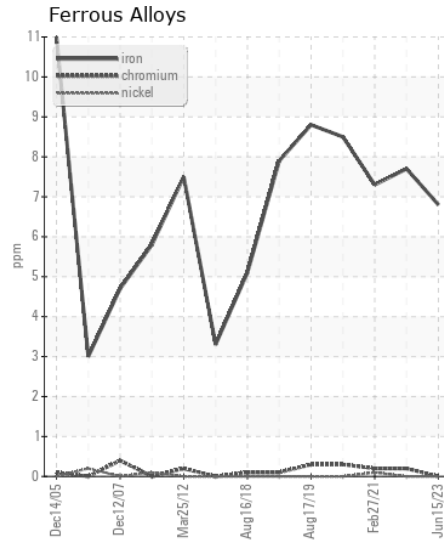
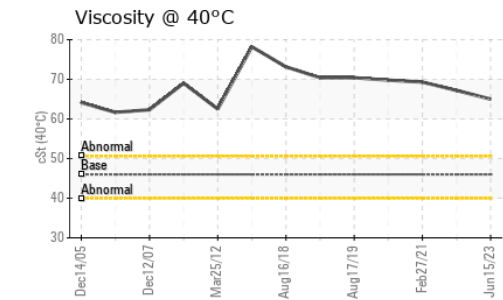
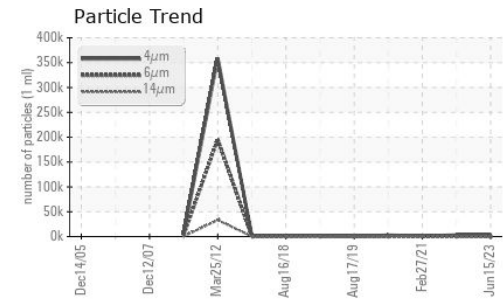
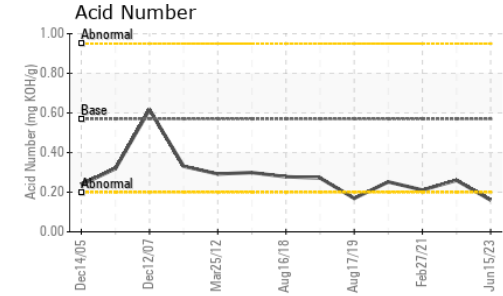
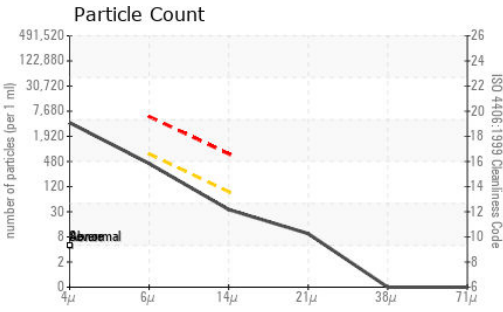
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>15	<1	<1	0
Potassium	ppm	ASTM D5185m	>20	<1	0	0
Water		WC Method	>0.05	NEG	NEG	NEG
Particles >4µm		ASTM D7647		3558	3075	1230
Particles >6µm		ASTM D7647	>640	378	697	293
Particles >14µm		ASTM D7647	>80	30	80	46
Particles >21µm		ASTM D7647	>20	8	22	13
Particles >38µm		ASTM D7647	>4	0	1	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>-/16/13	19/16/12	19/17/13	17/15/13
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	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	>0.05	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		3	3	<1
Boron	ppm	ASTM D5185m	5	0	0	0
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	5	0	0	0
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	25	1	0	<1
Calcium	ppm	ASTM D5185m	200	7	12	5
Phosphorus	ppm	ASTM D5185m	300	183	178	173
Zinc	ppm	ASTM D5185m	370	28	42	37
Sulfur	ppm	ASTM D5185m	2500	1204	948	898
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.16	0.26	0.211
Visc @ 40°C	cSt	ASTM D445	46	65.0	67.2	69.3



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0819560 **Received** : 31 Aug 2023
Lab Number : 05939691 **Tested** : 05 Sep 2023
Unique Number : 10630303 **Diagnosed** : 05 Sep 2023 - Don Baldrige
Test Package : IND 2

VIKING PLASTICS
 1 VIKING ST
 CORRY, PA
 US 16407
 Contact: JOHN TRIKUR
 jtrikur@vikingplastics.com
 T: (814)664-8671
 F: (814)664-7797

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)