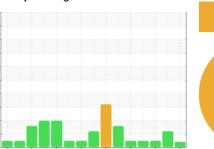


OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY

Machine Id

DEMAG PRESS 32 (S/N 7156-0054)

Hydraulic System

AW HYDRAULIC OIL ISO 68 (60 GAL)

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

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

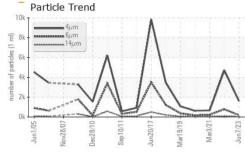
Fluid Condition

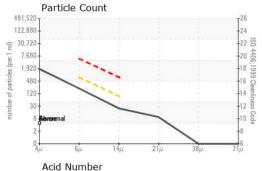
Viscosity of sample indicates oil is within ISO 46 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

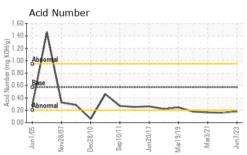
lun2005 Nov2007 De-2010 Smp2011 Jun2017 Mar2013 Mar2021 Jun2021								
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		WC0768406	WC0534559	WC0430856		
Sample Date		Client Info		07 Jun 2023	24 Jun 2022	03 Mar 2021		
Machine Age	mths	Client Info		0	0	0		
Oil Age	mths	Client Info		0	0	0		
Oil Changed		Client Info		N/A	N/A	N/A		
Sample Status				ATTENTION	ATTENTION	NORMAL		
CONTAMINATION	V	method	limit/base	current	history1	history2		
Water		WC Method	>0.05	NEG	NEG	NEG		
WEAR METALS		method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185m	>20	4	1	1		
Chromium	ppm	ASTM D5185m	>20	0	0	0		
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	0		
Lead	ppm	ASTM D5185m	>20	<1	0	<1		
Copper	ppm	ASTM D5185m	>20	3	2	2		
Tin	ppm	ASTM D5185m	>20	0	0	<1		
Antimony	ppm	ASTM D5185m				0		
Vanadium	ppm	ASTM D5185m		0	0	0		
Cadmium	nnm	AOTM DEADE				•		
Oddiniani	ppm	ASTM D5185m		0	0	0		
ADDITIVES	ррш	method	limit/base	current	0 history1	history2		
ADDITIVES	ppm		limit/base	-				
ADDITIVES Boron		method		current	history1	history2		
ADDITIVES Boron Barium	ppm	method ASTM D5185m	5	current 0	history1	history2		
ADDITIVES Boron Barium Molybdenum	ppm	method ASTM D5185m ASTM D5185m	5 5	current 0 0	history1 0 0	history2 0 <1		
ADDITIVES Boron Barium Molybdenum Manganese	ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	5 5	current 0 0 0	history1 0 0 0	history2 0 <1 0		
ADDITIVES Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	5 5 5	current 0 0 0 <	history1 0 0 0 0	history2 0 <1 0		
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	5 5 5 25	current 0 0 0 0 <1 <1	history1 0 0 0 0 0 0	history2 0 <1 0 0 0 <1		
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	method ASTM D5185m	5 5 5 25 200	current 0 0 0 0 <1 <1 30	history1 0 0 0 0 0 0 24	history2 0 <1 0 <1 0 <1 1 10		
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	method ASTM D5185m	5 5 5 25 200 300	current 0 0 0 0 <1 <1 30 205	history1 0 0 0 0 0 0 24 190	history2 0 <1 0 <1 1 10 178		
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	5 5 5 25 200 300 370	current 0 0 0 <1 <1 <1 30 205 117	history1 0 0 0 0 0 0 24 190 35	history2 0 <1 0 0 <1 10 178 52		
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	5 5 5 25 200 300 370 2500 limit/base	current 0 0 0 <1 <1 30 205 117 1061	history1 0 0 0 0 0 24 190 35 904	history2 0 <1 0 <1 10 178 52 925		
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	5 5 5 25 200 300 370 2500 limit/base	current 0 0 0 <1 <1 <1 30 205 117 1061 current	history1 0 0 0 0 0 24 190 35 904 history1	history2 0 <1 0 <1 10 178 52 925 history2		
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	5 5 5 25 200 300 370 2500 limit/base >15	current 0 0 0 <1 <1 <1 30 205 117 1061 current 0	history1 0 0 0 0 0 0 24 190 35 904 history1 <1	history2 0 <1 0 <1 10 178 52 925 history2 0		
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	5 5 5 25 200 300 370 2500 limit/base >15	current 0 0 0 0 <1 <1 <1 30 205 117 1061 current 0	history1 0 0 0 0 0 24 190 35 904 history1 <1	history2 0 <1 0 0 <1 10 178 52 925 history2 0 0		
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	5 5 5 25 200 300 370 2500 limit/base >15	current 0 0 0 <1 <1 <1 30 205 117 1061 current 0 0 1	history1 0 0 0 0 0 24 190 35 904 history1 <1 0 0	history2 0 <1 0 <1 10 178 52 925 history2 0 0		
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	5 5 5 25 200 300 370 2500 limit/base >15 >20	current 0 0 0 0 <1 <1 <1 30 205 117 1061 current 0 1 current	history1 0 0 0 0 0 24 190 35 904 history1 <1 0 history1	history2 0 <1 0 0 <1 10 178 52 925 history2 0 history2		
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m method ASTM D5185m	5 5 5 25 200 300 370 2500 limit/base >15 >20	current 0 0 0 0 <1 <1 <1 30 205 117 1061 current 0 0 1 current 1614 188 21	history1 0 0 0 0 0 24 190 35 904 history1 <1 0 history1 4711	history2 0 <1 0 0 <1 10 178 52 925 history2 0 0 history2 670		
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m method ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647	5 5 5 25 200 300 370 2500 limit/base >15 >20 limit/base	current 0 0 0 0 <1 <1 <1 30 205 117 1061 current 0 0 1 current 1614 188	history1 0 0 0 0 0 24 190 35 904 history1 <1 0 history1 4711	history2 0 <1 0 <1 10 178 52 925 history2 0 0 history2 670 234		
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m method ASTM D5185m ASTM D7647 ASTM D7647	5 5 5 25 200 300 370 2500 limit/base >15 >20 limit/base	current 0 0 0 0 <1 <1 <1 30 205 117 1061 current 0 0 1 current 1614 188 21	history1 0 0 0 0 0 0 24 190 35 904 history1 <1 0 0 history1 4711 776 87	history2 0 <1 0 <1 10 178 52 925 history2 0 0 0 234 35		
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m method ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647	5 5 5 25 200 300 370 2500 limit/base >15 >20 limit/base >640 >80 >20 >4	current 0 0 0 0 <1 <1 <1 30 205 117 1061 current 0 0 1 current 1614 188 21 8	history1 0 0 0 0 0 0 24 190 35 904 history1 <1 0 0 history1 4711 776 87 20	history2 0 <1 0 <1 10 178 52 925 history2 0 0 history2 670 234 35 11		

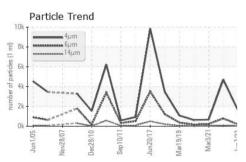


OIL ANALYSIS REPORT

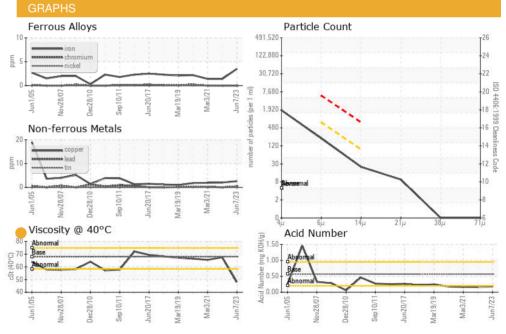








FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.18	0.16	0.165
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	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
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	68	48.1	67.5	65.5
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
Color						
Bottom						







Certificate 12367

Laboratory Sample No.

Lab Number : 05873177

: WC0768406 Unique Number : 10512961

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 14 Jun 2023 **Tested** : 16 Jun 2023

Diagnosed : 16 Jun 2023 - Don Baldridge

Test Package : IND 2 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.

VIKING PLASTICS 1 VIKING ST

CORRY, PA US 16407

Contact: JOHN TRIKUR jtrikur@vikingplastics.com

T: (814)664-8671 F: (814)664-7797

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: JOHN TRIKUR - VIKCOR