

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

LINE 11 UNILOY (S/N 5108)

Hydraulic System

AW HYDRAULIC OIL ISO 68 (--- GAL)

DIAGNOSIS

Recommendation

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. The amount and size of particulates present in the system are acceptable.

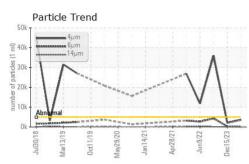
Fluid Condition

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

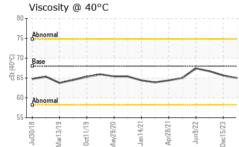
		Jul2018 Mara	019 Oct2019 May2020	Jan2021 Apr2021 Jun2022	Dec2023	
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0851675	WC0851668	WC0736477
Sample Date		Client Info		24 Feb 2024	15 Dec 2023	21 Feb 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	<1	<1
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	2	0
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	0	<1	0
Tin	ppm	ASTM D5185m	>20	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	0	2	0
Barium	ppm	ASTM D5185m	5	0	6	0
Molybdenum	ppm	ASTM D5185m	5	0	1	0
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m	25	0	11	8
Calcium	ppm	ASTM D5185m	200	46	61	40
Phosphorus	ppm	ASTM D5185m	300	327	421	332
Zinc	ppm	ASTM D5185m	370	391	482	410
Sulfur	ppm	ASTM D5185m	2500	1047	2209	2246
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	0	<1	<1
Sodium	ppm	ASTM D5185m		1	0	0
Potassium	ppm	ASTM D5185m	>20	0	<1	<1
Water	%	ASTM D6304	>0.05	NEG	NEG	NEG
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	3582	2082	▲ 36028
Particles >6µm		ASTM D7647	>1300	219	301	4 341
Particles >14µm		ASTM D7647	>160	4	29	134
Particles >21µm		ASTM D7647	>40	2	9	36
Particles >38µm		ASTM D7647	>10	0	1	4
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	19/15/9	18/15/12	22/19/14
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.38	0.39	0.36
× /	_ 0					

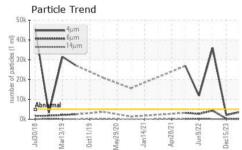


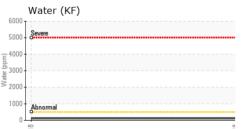
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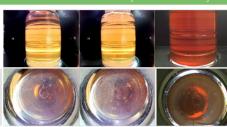


	Precipitate	scalar	*Visual	NONE	NONE	NONE
	Silt	scalar	*Visual	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE
-	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.05	NEG	NEG
	Free Water	scalar	*Visual		NEG	NEG
	FLUID PROPERT	IES	method	limit/base	current	history
	Visc @ 40°C	cSt	ASTM D445	68	65.0	65.6
	SAMPLE IMAGES		method			

*Visual

scalar *Visual

scalar



NONE

NONE

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

66.7

NONE

NONE

NONE

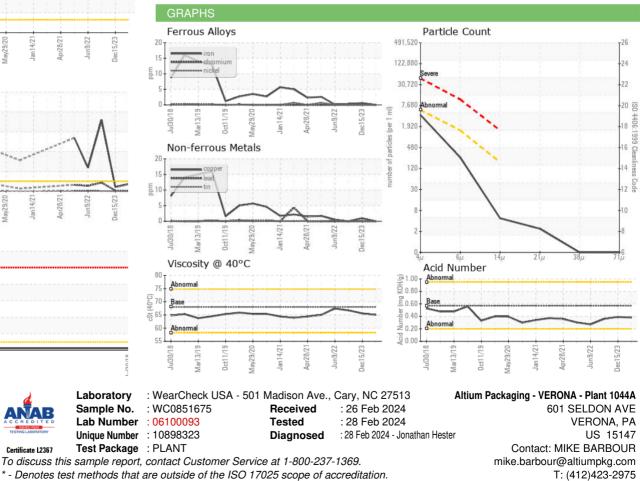
NONE

Bottom

Color

White Metal

Yellow Metal



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

Contact/Location: MIKE BARBOUR - CONVERPA

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