

## **OIL ANALYSIS**

### Area UTILITIES MAIN INCOMING HYD BULK TANK (S/N

Tank Hydraulic System

Fluic AW HYDRAULIC OIL ISO 46 (--- QTS)

### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. Please note that this is a corrected copy for laboratory data updates to confirm additives and viscosity

#### 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

Additive levels indicate the addition of a different brand, or type of oil. Viscosity of sample indicates oil is within ISO 68 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

SIS REPC	<b>PRT</b>				VI	VISCOSITY	
(S/N 16-2600-	0100)						
(	/						
		12019 Feb20	20 Jul2020 Apr2021	Feb2022 0ct2022 Jul2023	Dec2023		
SAMPLE INFORM	ΛΑΤΙΟΝ	method	limit/base	current	historv1	historv2	
Sample Number		Client Info		RP0042514	RP0038046	RP0042057	
Sample Date		Client Info		08 May 2024	11 Apr 2024	14 Mar 2024	
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				ATTENTION	NORMAL	NORMAL	
WEAR METALS		method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>20	0	<1	0	
Chromium	ppm	ASTM D5185m	>20	0	<1	0	
Nickel	ppm	ASTM D5185m	>20	0	<1	0	
Titanium	ppm	ASTM D5185m		0	<1	0	
Silver	ppm	ASTM D5185m		0	<1	0	
Aluminum	ppm	ASTM D5185m	>20	0	1	0	
Lead	ppm	ASTM D5185m	>20	0	1	0	
Copper	ppm	ASTM D5185m	>20	<1	<1	0	
Tin	ppm	ASTM D5185m	>20	0	1	0	
Vanadium	ppm	ASTM D5185m		0	<1	0	
Cadmium	ppm	ASTM D5185m		0	1	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	5	0	0	0	
Barium	ppm	ASTM D5185m	5	0	<1	0	
Molybdenum	ppm	ASTM D5185m	5	0	1	0	
Manganese	ppm	ASTM D5185m		0	<1	0	
Magnesium	ppm	ASTM D5185m	25	2	3	0	
Calcium	ppm	ASTM D5185m	200	21	57	43	
Phosphorus	ppm	ASTM D5185m	300	<b>740</b>	370	310	
Zinc	ppm	ASTM D5185m	370	878	435	406	
CONTAMINANTS		method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>15	<1	2	<1	
Sodium	ppm	ASTM D5185m		0	0	<1	
Potassium	ppm	ASTM D5185m	>20	1	<1	0	
Water	%	ASTM D6304	>0.05	0.002	0.006	0.006	
ppm Water	ppm	ASTM D6304	>500	25	64	62	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2	
Particles >4µm		ASTM D7647	>5000	1455	4477	3129	
Particles >6µm		ASTM D7647	>1300	259	558	520	
Particles >14µm		ASTM D7047	>160	18	45	23	
$rancies > 21 \mu m$		ASTM D7647	>40	1	18	0	
Particles >71um		ASTM D7647	>3	0	0	0	
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Sample Rating Trend

Acid Number (AN) mg KOH/g ASTM D8045 0.57

FLUID DEGRADATION

ISO 4406 (c)

>19/17/14

18/15/11

1.11

**Oil Cleanliness** 

19/16/13

0.38

19/16/12

0.32



# **OIL ANALYSIS REPORT**













Bottom







Unique Number : 11020659 Test Package : IND 2

: RP0042514

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)

:06174606

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received :09 May 2024 Tested : 22 May 2024 Diagnosed : 22 May 2024 - Jonathan Hester

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HWY 43 N

Report Id: OUTCALAL [WUSCAR] 06174606 (Generated: 05/22/2024 12:31:53) Rev: 2

Submitted By: DALE ROBINSON

**OUTOKUMPU STAINLESS USA** 

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