

# **OIL ANALYSIS REPORT**

## Sample Rating Trend



NCRTSSSI2500 2 H (S/N C2763) Component

**Hydraulic System** 

AW HYDRAULIC OIL ISO 46 (--- GAL)

### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

The chromium level is abnormal. All other component wear rates are normal.

## Contamination

There is a moderate amount of silt (particulates < 6 microns in size) present in the oil.

### **Fluid Condition**

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

		n2014 Sep20	15 May2017 Jan2018	Jan2019 Dec2019 Jan2021	Jan2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		Y2K0000728	Y2K0000865	Y2K0000844
Sample Date		Client Info		25 Jan 2024	26 Sep 2023	26 Jul 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				ATTENTION	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	14	16	11
Chromium	ppm	ASTM D5185m	>20	<b>△</b> 58	<u>▲</u> 53	<b>4</b> 8
Nickel	ppm	ASTM D5185m	>20	0	0	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>20	2	4	3
Lead	ppm	ASTM D5185m	>20	0	0	<1
Copper	ppm	ASTM D5185m	>20	13	15	15
Tin	ppm	ASTM D5185m	>20	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
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		<1	0	0
Magnesium	ppm	ASTM D5185m	25	<1	2	0
Calcium	ppm	ASTM D5185m	200	63	69	70
Phosphorus	ppm	ASTM D5185m	300	310	331	350
Zinc	ppm	ASTM D5185m	370	323	385	402
Sulfur	ppm	ASTM D5185m	2500	719	933	903
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	9	9	8
Sodium	ppm	ASTM D5185m		10	8	9
Potassium	ppm	ASTM D5185m	>20	6	6	5
Water	%	ASTM D6304	>0.05	0.019	0.007	0.021
ppm Water	ppm	ASTM D6304	>500	194	76.4	217.8
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>5000	<b>▲</b> 5669	<b>4</b> 9519	2564
Particles >6µm		ASTM D7647	>1300	485	525	324
Particles >14μm		ASTM D7647	>160	28	18	12
Particles >21µm		ASTM D7647	>40	6	5	3
Particles >38µm		ASTM D7647	>10	0	1	0
Particles >71µm		ASTM D7647	>3	0	1	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>2</b> 0/16/12	<b>2</b> 0/16/11	19/16/11
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

Acid Number (AN)

mg KOH/g ASTM D8045 0.57

0.32

0.47

0.29



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