

OIL ANALYSIS REPORT

Area CRM74 CRM 74 MILL MOTOR LUBRICATION SYSTEM (S/N 16-2400-0700)

Component **Tank Hydraulic System**

AW HYDRAULIC OIL ISO 46 (--- QTS)

DIAGNOSIS

Recommendation

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

All component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable.

Fluid Condition

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

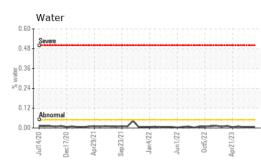
								NORMAL
harr								
				1111				
12020	Dec2020	Apr2021	Sep2021	Jan2022	Jun2022	0ct2022	Apr2023	

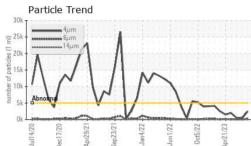
Sample Rating Trend

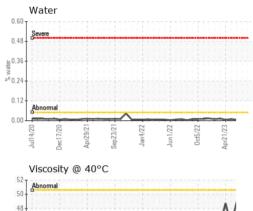
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0035521	RP0034447	RP0034557
Sample Date		Client Info		14 Jun 2023	18 May 2023	30 Apr 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	0	0
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	<1	0	0
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	3	3	2
Tin	ppm	ASTM D5185m	>20	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	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		0	0	0
Molybdenum	ppm	ASTM D5185m	5	0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	25	3	2	1
Calcium	ppm	ASTM D5185m	200	49	50	48
Phosphorus	ppm	ASTM D5185m	300	345	324	324
Zinc	ppm	ASTM D5185m		434	426	435
CONTAMINANTS		method ASTM D5185m	limit/base	current	history1 2	history2
Silicon Sodium	ppm	ASTM D5185m	>15	0	0	0
Potassium	ppm	ASTM D5185m	>20	0	<1	0
Water	ppm %	ASTM D518511	>0.05	0.005	0.005	0.005
ppm Water		ASTM D6304 ASTM D6304	>0.05	55.7	55.9	53.3
••	ppm					
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	2479	449	529
Particles >6µm		ASTM D7647	>1300	245	55	49
Particles >14µm		ASTM D7647	>160	6	6	4
Particles >21µm		ASTM D7647		1	2	1
Particles >38µm		ASTM D7647	>10	0	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	18/15/10	16/13/10	16/13/9
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.46	0.11	0.45

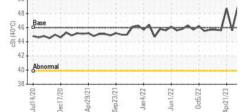


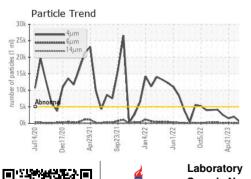
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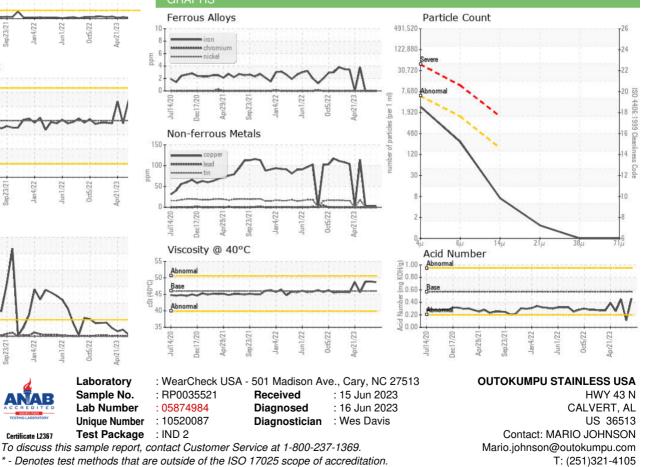




VISUAL		method	limit/base	current	history1	history2
White Metal sca		*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE NONE		NONE	NONE
Precipitate	scalar	*Visual	NONE NONE		NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE NONE		NONE	NONE
Sand/Dirt	scalar	*Visual	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 PROPER	TIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	48.7	48.9	48.8
SAMPLE IMAGE	method	limit/base	current	history1	history2	
Color						

Bottom





* - 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)

Certificate L2367

Submitted By: DALE ROBINSON

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