

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

Machine Id

NORTH PLANT 502

Component Hydraulic System

JAX PREMIUM HYDRAULIC OIL ISO 32 (--- 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 component. The amount and size of particulates present in the system is acceptable.

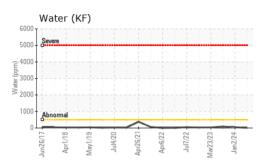
Fluid Condition

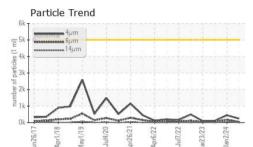
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

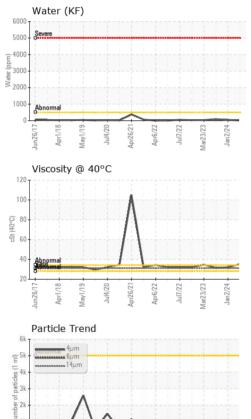
Sample Date Client Info 20 Apr 2024 02 Jan 2024 19 Aug 2023 Machine Age hrs Client Info 0 0 0 Oil Age hrs Client Info 0 0 0 Oil Changed Client Info N/A N/A N/A N/A Sample Status method limit/base current history1 history2 Iron ppm ASTM 05155m >20 2 3 2 Chromium ppm ASTM 05155m >20 0 0 0 Nickel ppm ASTM 05155m >20 1 2 0 Lead ppm ASTM 05155m >20 1 2 0 Capper ppm ASTM 05155m >20 1 0 0 Vanadium ppm ASTM 05155m 20 1 0 0 Capper ppm ASTM 05155m 20 1 0 0 Vanadium	SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 0 0 0 Oil Age hrs Client Info 0 0 0 Sample Status I Imit/base current history1 history2 Iron ppm ASTM D5185m >20 2 3 2 Iron ppm ASTM D5185m >20 0 0 0 Nickel ppm ASTM D5185m >20 0 0 0 Silver ppm ASTM D5185m >20 1 2 0 Cadmium ppm ASTM D5185m >20 1 0 0 Cadmium ppm ASTM D5185m 20 1 0 0 Nola	Sample Number		Client Info		USP0006404	USP0004579	USP0000560
Machine Age hrs Client Info 0 0 0 Oil Age hrs Client Info 0 0 0 Sample Status I Imit/base current history1 history2 Iron ppm ASTM D5185m >20 2 3 2 Iron ppm ASTM D5185m >20 0 0 0 Nickel ppm ASTM D5185m >20 0 0 0 Silver ppm ASTM D5185m >20 1 2 0 Cadmium ppm ASTM D5185m >20 1 0 0 Cadmium ppm ASTM D5185m 20 1 0 0 Nola	Sample Date		Client Info		20 Apr 2024	02 Jan 2024	19 Aug 2023
Oli Changed Client Info N/A N/A N/A N/A N/A Sample Status method imit/base current history1 history2 Iron ppm ASTN D5185m >20 2 3 2 Chromium ppm ASTN D5185m >20 <1 <1 0 Nickel ppm ASTN D5185m >20 0 0 0 Silver ppm ASTN D5185m >20 1 2 0 Lead ppm ASTN D5185m >20 1 <1 0 0 Cadmium ppm ASTN D5185m >20 <1 0 0 0 Cadmium ppm ASTN D5185m >20 <1 0 0 0 Cadmium ppm ASTN D5185m 0 0 0 0 0 Barium ppm ASTN D5185m 0 0 0 0 0 Barium pp	Machine Age	hrs	Client Info		0	0	0
Oli Changed Client Info N/A N/A N/A N/A Sample Status Image of the status Image of the status Image of the status N/A <	Oil Age	hrs	Client Info		0	0	0
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >20 2 3 2 Chromium ppm ASTM D5185m >20 0 0 0 Nickel ppm ASTM D5185m >20 0 0 0 Silver ppm ASTM D5185m <21 0 0 0 Lead ppm ASTM D5185m >20 1 2 0 Lead ppm ASTM D5185m >20 1 0 0 Vanadium ppm ASTM D5185m >20 <1 0 0 Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 Boron ppm ASTM D5185m 0 0 0 0 Maganese ppm ASTM D5185m 0 0 0 0	Oil Changed		Client Info		N/A	N/A	N/A
Iron ppm ASTM D5185m >20 2 3 2 Chromium ppm ASTM D5185m >20 <1 <1 0 Nickel ppm ASTM D5185m >20 0 0 0 Silver ppm ASTM D5185m <1 0 0 Auminum ppm ASTM D5185m >20 1 2 0 Lead ppm ASTM D5185m >20 <1 <1 0 0 Copper ppm ASTM D5185m >20 <1 0 0 0 Cadmium ppm ASTM D5185m 20 <1 0 0 0 ADDITIVES method imit/base current history1 history2 Boron ppm ASTM D5185m 0 0 0 0 Maganese ppm ASTM D5185m 0 0 0 0 Maganeses ppm ASTM D5185m 6 5 </th <th>Sample Status</th> <th></th> <th></th> <th></th> <th>NORMAL</th> <th>NORMAL</th> <th>NORMAL</th>	Sample Status				NORMAL	NORMAL	NORMAL
Chromium ppm ASTM D5185m >20 <1	WEAR METALS		method	limit/base	current	history1	history2
Chromium ppm ASTM D5185m >20 <1	Iron	ppm	ASTM D5185m	>20	2	3	2
Nickel ppm ASTM D5185m >20 0 0 0 Titanium ppm ASTM D5185m <1 0 0 Silver ppm ASTM D5185m <1 0 0 Aluminum ppm ASTM D5185m >20 1 2 0 Lead ppm ASTM D5185m >20 <1 0 0 Copper ppm ASTM D5185m >20 <1 0 0 Cadmium ppm ASTM D5185m >20 <1 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 Boron ppm ASTM D5185m 0 0 0 0 Barium ppm ASTM D5185m 0 0 0 0 Calcium ppm ASTM D5185m 4 <1 <1 1 Phosphorus	Chromium		ASTM D5185m	>20	<1	<1	0
Titanium ppm ASTM D5185m <1	Nickel		ASTM D5185m	>20	0	0	0
Silver ppm ASTM D5185m <1	Titanium		ASTM D5185m		<1	0	0
Aluminum ppm ASTM D5185m >20 1 2 0 Lead ppm ASTM D5185m >20 <1 <1 0 Copper ppm ASTM D5185m >20 <1 <1 0 Vanadium ppm ASTM D5185m >20 <1 0 0 Cadmium ppm ASTM D5185m <0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 Boron ppm ASTM D5185m 0 0 0 0 Barium ppm ASTM D5185m 0 0 0 0 Maganese ppm ASTM D5185m 0 0 0 0 Maganesium ppm ASTM D5185m 4 101 88 21nc 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					<1		
Lead ppm ASTM D5185m >20 0 0 0 Copper ppm ASTM D5185m >20 <1				>20			
Copper ppm ASTM D5185m >20 <1							
Tin ppm ASTM D5185m >20 <1							
Vanadium ppm ASTM D5185m <1							
Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 0 0 Barium ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 0 0 0 0 Manganese ppm ASTM D5185m <1 0 1 1 Calcium ppm ASTM D5185m <1 0 1 1 Calcium ppm ASTM D5185m <4 <1 <1 1 Phosphorus ppm ASTM D5185m <567 577 663 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 2 2 1 Sodium ppm ASTM D5185m >20 1 <1 0				>20			
ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 0 0 Barium ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 0 0 0 0 Magnesium ppm ASTM D5185m 0 0 0 0 Calcium ppm ASTM D5185m 4 <1 1 Phosphorus ppm ASTM D5185m 84 101 88 Zinc ppm ASTM D5185m 6 5 12 Sulfur ppm ASTM D5185m 567 577 663 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m 22 2 1 0 Vater % ASTM D6180 0 0 0 0.004 0.008 ppm Water<							
Boron ppm ASTM D5185m 0 0 0 0 Barium ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 0 0 0 0 Manganese ppm ASTM D5185m 0 0 0 0 Magnesium ppm ASTM D5185m <1		ppm		limit/base			
Barium ppm ASTM D5185m 0 5 0 Molybdenum ppm ASTM D5185m 0 0 0 0 Maganese ppm ASTM D5185m 0 0 0 0 Magnesium ppm ASTM D5185m <1		maa		initia base			
Molybdenum ppm ASTM D5185m 0 0 0 0 Manganese ppm ASTM D5185m 1 0 1 Calcium ppm ASTM D5185m 4 <1							
Manganese ppm ASTM D5185m 0 0 0 0 Magnesium ppm ASTM D5185m <1 0 1 Calcium ppm ASTM D5185m 4 <1 <1 Phosphorus ppm ASTM D5185m 84 101 88 Zinc ppm ASTM D5185m 6 5 12 Sulfur ppm ASTM D5185m 567 577 663 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 2 2 1 Sodium ppm ASTM D5185m >20 1 <1 0 Water % ASTM D5185m >20 1 <1 0 Water % ASTM D6304 >0.05 0.001 0.004 0.008 ppm Water ppm ASTM D7647 >5000 242 445 104 Particles >4µm					-		
Magnesium ppm ASTM D5185m <1	-						
Calcium ppm ASTM D5185m 4 <1	-				-		
Phosphorus ppm ASTM D5185m 84 101 88 Zinc ppm ASTM D5185m 6 5 12 Sulfur ppm ASTM D5185m 567 577 663 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 2 2 1 Sodium ppm ASTM D5185m >15 2 2 1 Sodium ppm ASTM D5185m >15 2 2 1 Sodium ppm ASTM D5185m >20 1 <1 0 Water % ASTM D6304 >0.05 0.001 0.004 0.008 ppm Water ppm ASTM D7647 >500 15 45 89.3 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >5000 242 445 104	•						
Zinc ppm ASTM D5185m 6 5 12 Sulfur ppm ASTM D5185m 567 577 663 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 2 2 1 Sodium ppm ASTM D5185m >15 2 2 1 Sodium ppm ASTM D5185m >20 1 <1					-		
Sulfur ppm ASTM D5185m 567 577 663 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 2 2 1 Sodium ppm ASTM D5185m >15 2 2 1 Sodium ppm ASTM D5185m >0 0 0 0 Potassium ppm ASTM D5185m >20 1 <1 0 Water % ASTM D6304 >0.05 0.001 0.004 0.008 ppm Water ppm ASTM D6304 >500 15 45 89.3 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >5000 242 445 104 Particles >6µm ASTM D7647 >1300 38 170 44 Particles >14µm ASTM D7647 >10 0 1 0					-		
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 2 2 1 Sodium ppm ASTM D5185m >15 2 2 1 Sodium ppm ASTM D5185m >0 0 0 0 Potassium ppm ASTM D5185m >20 1 <1 0 Water % ASTM D6304 >0.05 0.001 0.004 0.008 ppm Water ppm ASTM D6304 >500 15 45 89.3 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >5000 242 445 104 Particles >6µm ASTM D7647 >1300 38 170 44 Particles >14µm ASTM D7647 >160 5 40 11 Particles >21µm ASTM D7647 10 0 1 0					-		
Silicon ppm ASTM D5185m >15 2 2 1 Sodium ppm ASTM D5185m 0 0 0 0 Potassium ppm ASTM D5185m >20 1 <1 0 Water % ASTM D6304 >0.05 0.001 0.004 0.008 ppm Water ppm ASTM D6304 >500 15 45 89.3 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >5000 242 445 104 Particles >6µm ASTM D7647 >1300 38 170 44 Particles >14µm ASTM D7647 >160 5 40 11 Particles >21µm ASTM D7647 >40 1 12 3 Particles >38µm ASTM D7647 >3 0 0 0 Particles >71µm ASTM D7647 >3 0 0 0 0				limit/base			
Sodium ppm ASTM D5185m 0 0 0 0 Potassium ppm ASTM D5185m >20 1 <1 0 Water % ASTM D6304 >0.05 0.001 0.004 0.008 ppm Water ppm ASTM D6304 >500 15 45 89.3 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >5000 242 445 104 Particles >6µm ASTM D7647 >1300 38 170 44 Particles >6µm ASTM D7647 >160 5 40 11 Particles >14µm ASTM D7647 >10 0 1 0 Particles >21µm ASTM D7647 >3 0 0 0 Particles >71µm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >19/17/14 15/12/10 16/15/12 14/13/11							
Potassium ppm ASTM D5185m >20 1 <1							
Water % ASTM D6304 >0.05 0.001 0.004 0.008 ppm Water ppm ASTM D6304 >500 15 45 89.3 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >5000 242 445 104 Particles >6µm ASTM D7647 >1300 38 170 44 Particles >14µm ASTM D7647 >160 5 40 11 Particles >21µm ASTM D7647 >40 1 12 3 Particles >38µm ASTM D7647 >10 0 1 0 Particles >71µm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >19/17/14 15/12/10 16/15/12 14/13/11 FLUID DEGRADATION method limit/base current history1 history2				>20	-		
ppm Water ppm ASTM D6304 >500 15 45 89.3 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >5000 242 445 104 Particles >6µm ASTM D7647 >1300 38 170 44 Particles >6µm ASTM D7647 >160 5 40 11 Particles >14µm ASTM D7647 >40 1 12 3 Particles >21µm ASTM D7647 >10 0 1 0 Particles >38µm ASTM D7647 >3 0 0 0 Particles >71µm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >19/17/14 15/12/10 16/15/12 14/13/11 FLUID DEGRADATION method limit/base current history1 history2							
FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >5000 242 445 104 Particles >6µm ASTM D7647 >1300 38 170 44 Particles >6µm ASTM D7647 >160 5 40 11 Particles >14µm ASTM D7647 >40 1 12 3 Particles >21µm ASTM D7647 >40 1 0 0 Particles >38µm ASTM D7647 >10 0 1 0 Particles >38µm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >19/17/14 15/12/10 16/15/12 14/13/11 FLUID DEGRADATION method limit/base current history1 history2							
Particles >6μm ASTM D7647 >1300 38 170 44 Particles >14μm ASTM D7647 >160 5 40 11 Particles >21μm ASTM D7647 >40 1 12 3 Particles >21μm ASTM D7647 >40 1 0 1 0 Particles >38μm ASTM D7647 >10 0 1 0 0 Particles >38μm ASTM D7647 >3 0 0 0 0 Oil Cleanliness ISO 4406 (c) >19/17/14 15/12/10 16/15/12 14/13/11 FLUID DEGRADATION method limit/base current history1 history2	FLUID CLEANLIN		method	limit/base	current	history1	history2
Particles >14μm ASTM D7647 >160 5 40 11 Particles >21μm ASTM D7647 >40 1 12 3 Particles >38μm ASTM D7647 >10 0 1 0 Particles >38μm ASTM D7647 >3 0 0 0 Particles >71μm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >19/17/14 15/12/10 16/15/12 14/13/11 FLUID DEGRADATION method limit/base current history1 history2			ASTM D7647	>5000	242		
Particles >21µm ASTM D7647 >40 1 12 3 Particles >38µm ASTM D7647 >10 0 1 0 Particles >38µm ASTM D7647 >3 0 0 0 Particles >71µm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >19/17/14 15/12/10 16/15/12 14/13/11 FLUID DEGRADATION method limit/base current history1 history2	Particles >6µm		ASTM D7647	>1300	38	170	44
Particles >21µm ASTM D7647 >40 1 12 3 Particles >38µm ASTM D7647 >10 0 1 0 Particles >38µm ASTM D7647 >3 0 0 0 Particles >71µm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >19/17/14 15/12/10 16/15/12 14/13/11 FLUID DEGRADATION method limit/base current history1 history2	Particles >14µm		ASTM D7647	>160	5	40	11
Particles >38μm ASTM D7647 >10 0 1 0 Particles >71μm ASTM D7647 >3 0 0 0 0 Oil Cleanliness ISO 4406 (c) >19/17/14 15/12/10 16/15/12 14/13/11 FLUID DEGRADATION method limit/base current history1 history2			ASTM D7647	>40	1	12	3
Particles >71μm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >19/17/14 15/12/10 16/15/12 14/13/11 FLUID DEGRADATION method limit/base current history1 history2				>10		1	0
Oil Cleanliness ISO 4406 (c) >19/17/14 15/12/10 16/15/12 14/13/11 FLUID DEGRADATION method limit/base current history1 history2				>3	0	0	0
	FLUID DEGRADA		method	limit/base	current	history1	history2
	Acid Number (AN)						



OIL ANALYSIS REPORT



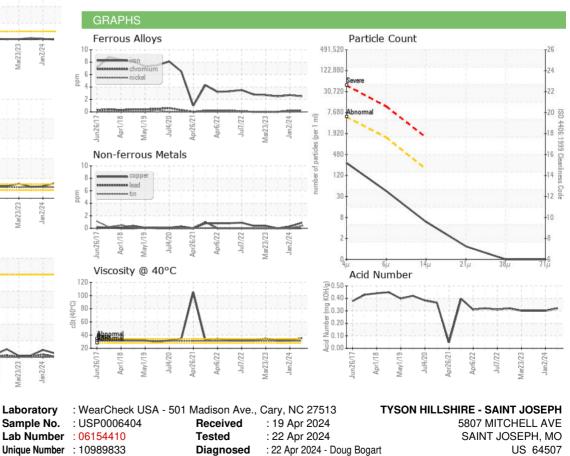




0

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	31.1	35.3	32.0	31.5
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						· .

Bottom



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.

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

Certificate 12367

(ar)3/7

Contact/Location: ? ? - TYSSAI Page 2 of 2

Contact:

T:

F: