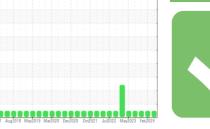


OIL ANALYSIS REPORT

Sample Rating Trend







Sample Date Client Info 03 Jun 2024 27 Feb 2024 28 Nov 202 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 Imethod Imil/base current History1 History1 Iron ppm ASTM 05185m >200 2 3 5 Chromium ppm ASTM 05185m >15 0 0 0 Titanium ppm ASTM 05185m >15 0 -11 0 Silver ppm ASTM 05185m >200 0 -11 0 Copper ppm ASTM 05185m >200 0 -11 0 Cadmium ppm ASTM 05185m >200 0 0 0 0 Cadmium ppm ASTM 05185m 0 0 0 0 Baron </th <th>SAMPLE INFOR</th> <th>MATION</th> <th>method</th> <th>limit/base</th> <th>current</th> <th>history1</th> <th>history2</th>	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
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 Imit/base current history Iron ppm ASTM D5185m >200 2 3 5 Chromium ppm ASTM D5185m >15 0 0 0 Nickel ppm ASTM D5185m >15 0 0 0 Silver ppm ASTM D5185m >200 0 1 1 Lead ppm ASTM D5185m >20 0 0 0 Copper ppm ASTM D5185m >20 0 0 0 Cadmium ppm ASTM D5185m 20 0 0 0 Copper ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0	Sample Number		Client Info		USPM36439	USPM30234	USPM3148
Oil Age hrs Client Info 0 0 0 Oil Changed Client Info N/A N/A N/A N/A Sample Status Client Info N/A NORMAL NORMAL NORMAL WEAR METALS method limit/base current history1 history1 Iron ppm ASTM 05185m >200 2 3 5 Chromium ppm ASTM 05185m >15 0 0 0 Nickel ppm ASTM 05185m 0 0 0 0 Silver ppm ASTM 05185m 200 0 1 1 Lead ppm ASTM 05185m >25 0 0 0 Capper ppm ASTM 05185m >20 0 0 0 Cadmium ppm ASTM 05185m 0 0 0 0 Barium ppm ASTM 05185m 0 0 0 0	Sample Date		Client Info		03 Jun 2024	27 Feb 2024	28 Nov 202
Oil Changed Sample Status Client Info N/A N/A N/A N/A N/A WEAR METALS method limit/base current history1 history1 Iron ppm ASTM 05185m >200 2 3 5 Chromium ppm ASTM 05185m >15 0 0 0 Nickel ppm ASTM 05185m >15 0 <1	Machine Age	hrs	Client Info		0	0	0
Sample Status NORMAL NORMAL NORMAL NORMAL NORMAL WEAR METALS method limit/base current history1 history1 Iron ppm ASTM D5185m >200 2 3 5 Chromium ppm ASTM D5185m >15 0 <1	Oil Age	hrs	Client Info		0	0	0
WEAR METALS method limit/base current history1 history1 Iron ppm ASTM 05185n >200 2 3 5 Chromium ppm ASTM 05185n >15 0 0 0 Nickel ppm ASTM 05185n >15 0 <1	Oil Changed		Client Info		N/A	N/A	N/A
Iron ppm ASTM D5185m >200 2 3 5 Chromium ppm ASTM D5185m >15 0 0 0 Nickel ppm ASTM D5185m >15 0 0 0 Silver ppm ASTM D5185m 0 0 0 0 Astm D5185m >25 0 <1	Sample Status				NORMAL	NORMAL	NORMAL
Dromium ppm ASTM D5165m >15 0 0 0 Nickel ppm ASTM D5165m >15 0 -1 0 Silver ppm ASTM D5165m 0 0 0 0 Astmunum ppm ASTM D5165m >25 0 -1 1 Lead ppm ASTM D5165m >200 0 -1 -1 Lead ppm ASTM D5165m >200 0 -1 -1 0 Copper ppm ASTM D5165m 200 0 -1 -1 1 0<	WEAR METALS		method	limit/base	current	history1	history2
Nickel ppm ASTM D5185m >15 0 <1 0 Titanium ppm ASTM D5185m 0 0 0 0 Silver ppm ASTM D5185m >25 0 <1	Iron	ppm	ASTM D5185m	>200	2	3	5
Titanium ppm ASTM D5185m 0 0 0 0 Silver ppm ASTM D5185m >25 0 <1	Chromium	ppm	ASTM D5185m	>15	0	0	0
Silver ppm ASTM D5185m 0 0 0 0 Aluminum ppm ASTM D5185m >25 0 <1	Nickel	ppm	ASTM D5185m	>15	0	<1	0
Silver ppm ASTM D5185m 0 0 0 Aluminum ppm ASTM D5185m >25 0 <1	Titanium	ppm	ASTM D5185m		0	0	0
Lead ppm ASTM D5185m >100 0 <1 0 Copper ppm ASTM D5185m >200 0 <1	Silver	ppm	ASTM D5185m		0	0	0
Lead ppm ASTM D5185m >100 0 <1 0 Copper ppm ASTM D5185m >200 0 <1	Aluminum	ppm	ASTM D5185m	>25	0	<1	1
Copper ppm ASTM D5185m >200 0 <1 <1 Tin ppm ASTM D5185m >25 0 0 0 Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 ADDITIVES method limit/base current history1 history1 Boron ppm ASTM D5185m 0 0 0 0 Barium ppm ASTM D5185m 0 0 0 0 Magnese ppm ASTM D5185m 0 2 <1	Lead		ASTM D5185m	>100	0	<1	0
Tin ppm ASTM D5185m >25 0 0 0 Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 ADDITIVES method limit/base current history1 history1 Boron ppm ASTM D5185m 0 0 0 0 Barium ppm ASTM D5185m 0 0 0 0 Magaeese ppm ASTM D5185m 0 2 <1	Copper		ASTM D5185m	>200	0	<1	<1
Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 ADDITIVES method limit/base current history1 history1 Boron ppm ASTM D5185m 0 0 0 0 Barium ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 0 -1 <1					-		
Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history1 Boron ppm ASTM D5185m 0 0 0 0 Barium ppm ASTM D5185m 0 0 0 0 Magnese ppm ASTM D5185m 0 0 0 0 Magnesium ppm ASTM D5185m 0 <1 <1 0 Calcium ppm ASTM D5185m 0 2 <1 0 Contraming ppm ASTM D5185m 0 3 0 3 0 Sulfur ppm ASTM D5185m 0 3 0 3 0 Sodium ppm ASTM D5185m 0 3 0 3 0 Sulfur ppm ASTM D5185m 50 10 11 10 Sodium ppm ASTM D5185m 20 1					-		
Boron ppm ASTM D5185m 0 0 0 0 Barium ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 0 0 0 0 Marganese ppm ASTM D5185m 0 <1					-		
Barium ppm ASTM D5185m 0 0 0 Molybdenum ppm ASTM D5185m 0 0 0 Maganese ppm ASTM D5185m 0 <1	ADDITIVES		method	limit/base	current	history1	history2
Barium ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 0 0 0 0 Manganese ppm ASTM D5185m 0 <1	Boron	maa	ASTM D5185m		0	0	0
Molybdenum ppm ASTM D5185m 0 0 0 Manganese ppm ASTM D5185m <1	Barium		ASTM D5185m		0	0	0
Manganese ppm ASTM D5185m <1 <1 0 Magnesium ppm ASTM D5185m 0 <1					-		
Magnesium ppm ASTM D5185m 0 <1 <1 Calcium ppm ASTM D5185m 0 2 <1	-				-		
Calcium ppm ASTM D5185m 0 2 <1 Phosphorus ppm ASTM D5185m 527 624 556 Zinc ppm ASTM D5185m 0 3 0 Sulfur ppm ASTM D5185m 0 3 0 Sulfur ppm ASTM D5185m 1024 983 916 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >50 10 11 10 Sodium ppm ASTM D5185m >20 <1	-						
Phosphorus ppm ASTM D5185m 527 624 556 Zinc ppm ASTM D5185m 0 3 0 Sulfur ppm ASTM D5185m 1024 983 916 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >50 10 11 10 Sodium ppm ASTM D5185m >50 10 11 10 Sodium ppm ASTM D5185m >50 10 11 10 Sodium ppm ASTM D5185m >20 <1 1 1 Water % ASTM D5185m >20 <1 1 1 Water % ASTM D6304 >0.2 0.003 0.029 0.002 ppm ASTM D7647 >2000 36 294 24 FLUID CLEANLINESS method limit/base current history1 history2 P	0				-		
Zinc ppm ASTM D5185m 0 3 0 Sulfur ppm ASTM D5185m 1024 983 916 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >50 10 11 10 Sodium ppm ASTM D5185m <1					-		
Sulfur ppm ASTM D5185m 1024 983 916 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >50 10 11 10 Sodium ppm ASTM D5185m >50 10 11 10 Potassium ppm ASTM D5185m >20 <1					-		
CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >50 10 11 10 Sodium ppm ASTM D5185m >50 10 11 0 Potassium ppm ASTM D5185m >20 <1	-				-		
Silicon ppm ASTM D5185m >50 10 11 10 Sodium ppm ASTM D5185m <1				limit/bass	-		
Sodium ppm ASTM D5185m <1 <1 0 Potassium ppm ASTM D5185m >20 <1							
Potassium ppm ASTM D5185m >20 <1 1 1 Water % ASTM D6304 >0.2 0.003 0.029 0.002 ppm ASTM D6304 >2000 36 294 24 FLUID CLEANLINESS method limit/base current history1 history1 Particles >4µm ASTM D7647 >20000 173 204 254 Particles >6µm ASTM D7647 >5000 56 47 132 Particles >6µm ASTM D7647 >640 10 6 29 Particles >14µm ASTM D7647 >160 3 1 11 Particles >38µm ASTM D7647 >10 0 0 1 Particles >71µm ASTM D7647 >10 0 0 0 Oil Cleanliness ISO 4406 (c) >21/19/16 15/13/10 15/13/10 15/14/12 FLUID DEGRADATION method limit/base current history1 history1				>50			
Water % ASTM D6304 >0.2 0.003 0.029 0.002 ppm Water ppm ASTM D6304 >2000 36 294 24 FLUID CLEANLINESS method limit/base current history1 history1 Particles >4µm ASTM D7647 >2000 173 204 254 Particles >6µm ASTM D7647 >5000 56 47 132 Particles >14µm ASTM D7647 >640 10 6 29 Particles >21µm ASTM D7647 >160 3 1 11 Particles >38µm ASTM D7647 >40 0 0 0 Particles >71µm ASTM D7647 >10 0 0 0 Oil Cleanliness ISO 4406 (c) >21/19/16 15/13/10 15/13/10 15/14/12 FLUID DEGRADATION method limit/base current history1 history1							
ppm Water ppm ASTM D6304 >2000 36 294 24 FLUID CLEANLINESS method limit/base current history1 history1 Particles >4µm ASTM D7647 >20000 173 204 254 Particles >6µm ASTM D7647 >5000 56 47 132 Particles >6µm ASTM D7647 >640 10 6 29 Particles >14µm ASTM D7647 >160 3 1 11 Particles >21µm ASTM D7647 >40 0 0 1 Particles >38µm ASTM D7647 >10 0 0 0 Particles >71µm ASTM D7647 >10 0 0 0 Oil Cleanliness ISO 4406 (c) >21/19/16 15/13/10 15/13/10 15/14/12 FLUID DEGRADATION method limit/base current history1 history1							
FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >20000 173 204 254 Particles >6µm ASTM D7647 >5000 56 47 132 Particles >6µm ASTM D7647 >640 10 6 29 Particles >14µm ASTM D7647 >160 3 1 11 Particles >21µm ASTM D7647 >160 3 1 11 Particles >38µm ASTM D7647 >40 0 0 1 Particles >71µm ASTM D7647 >10 0 0 0 Oil Cleanliness ISO 4406 (c) >21/19/16 15/13/10 15/14/12 FLUID DEGRADATION method limit/base current history1 history3		%		>0.2			
Particles >4μm ASTM D7647 >20000 173 204 254 Particles >6μm ASTM D7647 >5000 56 47 132 Particles >14μm ASTM D7647 >640 10 6 29 Particles >21μm ASTM D7647 >160 3 1 11 Particles >21μm ASTM D7647 >40 0 0 1 Particles >38μm ASTM D7647 >40 0 0 1 Particles >71μm ASTM D7647 >10 0 0 0 Oil Cleanliness ISO 4406 (c) >21/19/16 15/13/10 15/13/10 15/14/12 FLUID DEGRADATION method limit/base current history1 history1	ppm Water	ppm	ASTM D6304	>2000	36	294	24
Particles >6μm ASTM D7647 >5000 56 47 132 Particles >14μm ASTM D7647 >640 10 6 29 Particles >14μm ASTM D7647 >160 3 1 11 Particles >21μm ASTM D7647 >160 3 1 11 Particles >38μm ASTM D7647 >40 0 0 1 Particles >38μm ASTM D7647 >40 0 0 0 Particles >71μm ASTM D7647 >10 0 0 0 Oil Cleanliness ISO 4406 (c) >21/19/16 15/13/10 15/13/10 15/14/12 FLUID DEGRADATION method limit/base current history1 history1	FLUID CLEANLI	NESS	method				history2
Particles >14µm ASTM D7647 >640 10 6 29 Particles >21µm ASTM D7647 >160 3 1 11 Particles >21µm ASTM D7647 >40 0 0 1 Particles >38µm ASTM D7647 >40 0 0 1 Particles >71µm ASTM D7647 >10 0 0 0 Oil Cleanliness ISO 4406 (c) >21/19/16 15/13/10 15/13/10 15/14/12 FLUID DEGRADATION method limit/base current history1 history1							
Particles >21μm ASTM D7647 >160 3 1 11 Particles >38μm ASTM D7647 >40 0 0 1 Particles >38μm ASTM D7647 >40 0 0 1 Particles >71μm ASTM D7647 >10 0 0 0 Oil Cleanliness ISO 4406 (c) >21/19/16 15/13/10 15/13/10 15/14/12 FLUID DEGRADATION method limit/base current history1 history1	Particles >6µm		ASTM D7647	>5000	56	47	132
Particles >38μm ASTM D7647 >40 0 0 1 Particles >71μm ASTM D7647 >10 0 0 0 0 Oil Cleanliness ISO 4406 (c) >21/19/16 15/13/10 15/13/10 15/14/12 FLUID DEGRADATION method limit/base current history1 history2	Particles >14µm		ASTM D7647	>640	10	6	29
Particles >71μm ASTM D7647 >10 0 0 0 Oil Cleanliness ISO 4406 (c) >21/19/16 15/13/10 15/13/10 15/14/12 FLUID DEGRADATION method limit/base current history1 history2	Particles >21µm		ASTM D7647	>160	3	1	11
Oil Cleanliness ISO 4406 (c) >21/19/16 15/13/10 15/13/10 15/14/12 FLUID DEGRADATION method limit/base current history1 history2	Particles >38µm		ASTM D7647	>40	0	0	1
FLUID DEGRADATION method limit/base current history1 history:	Particles >71µm		ASTM D7647	>10	0	0	0
	Oil Cleanliness		ISO 4406 (c)	>21/19/16	15/13/10	15/13/10	15/14/12
Acid Number (AN) mg KOH/g ASTM D8045 0.54 0.60 0.58							
	FLUID DEGRAD	ATION	method				history2

S ATLAS DRYER Component Gearbox Fluid

USPI 3206 EP (--- GAL)

Machine Id

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.

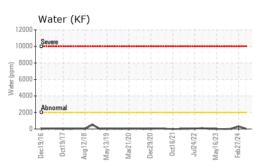
Fluid Condition

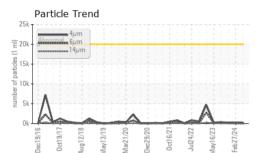
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

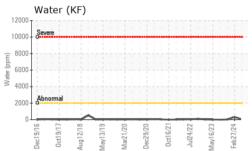
Contact/Location: ? ? - TYSDAKREN Page 1 of 2

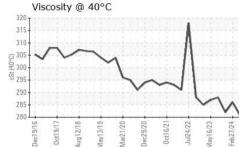


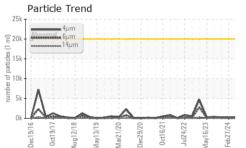
OIL ANALYSIS REPORT





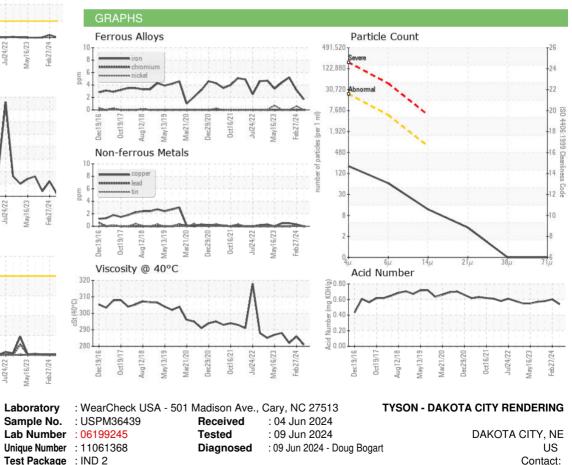


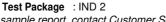




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	TIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		281	286	282
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
Color				o.		
						MACH

Bottom





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

Contact/Location: ? ? - TYSDAKREN

T:

F: