

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

Machine Id WC-9800-0101-5 Chiller #1

Component Chiller Fluid

YORK TYPE K (--- GAL)

DIAGNOSIS

Recommendation

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

Wear

All component wear rates are normal.

Contamination

There is a trace of moisture present in the oil. The amount and size of particulates present in the system are acceptable.

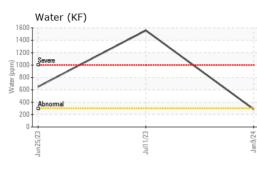
Fluid Condition

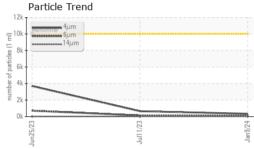
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

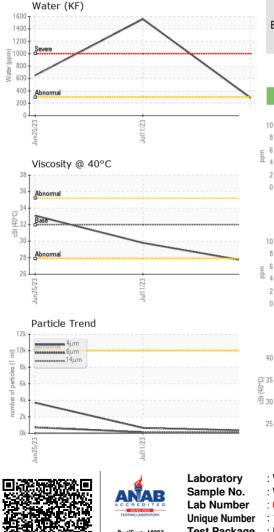
Sample Date Client Info 09 Jan 2024 11 Jul 2023 25 Jun 2023 Machine Age hrs Client Info 0 0 0 0 Oil Age hrs Client Info 0 0 0 0 Oil Changed Client Info NA NA NA NA Sample Status method limit/base current history1 history2 Iron ppm ASTM D5185m >8 <1 0 <1 Chromium ppm ASTM D5185m >2 0 0 0 Nickel ppm ASTM D5185m >2 0 0 0 Super ppm ASTM D5185m >2 0 0 0 Copper ppm ASTM D5185m >2 0 0 0 Cadmium ppm ASTM D5185m >4 0 <1 0 Cadmium ppm ASTM D5185m 0 0 0 0 <t< th=""><th>SAMPLE INFORM</th><th>NATION</th><th>method</th><th>limit/base</th><th>current</th><th>history1</th><th>history2</th></t<>	SAMPLE INFORM	NATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 56514 55972 55972 Oil Age hrs Client Info 0 0 0 Oil Age hrs Client Info N/A N/A N/A Sample Status Imit/base current history1 history2 Iron ppm ASTM D5185m >8 <1 0 0 Nickel ppm ASTM D5185m 2 <1 0 0 Silver ppm ASTM D5185m >2 0 0 0 Copper ppm ASTM D5185m >2 0 0 0 Cadmium ppm ASTM D5185m >2 0 0 0 Cadmium ppm ASTM D5185m 2 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 Rarge seium ppm<	Sample Number		Client Info		WC0836504	WC0827380	WC0827393
Oil Age hrs Client Info 0 0 0 Oil Changed Client Info N/A N/A N/A N/A Sample Status Imil/base current history1 history2 Iron ppm ASTM D5185m >8 <1 0 <1 Chromium ppm ASTM D5185m >2 <1 0 0 Nickel ppm ASTM D5185m >2 0 0 0 Auminum ppm ASTM D5185m >2 0 0 0 Auminum ppm ASTM D5185m 2 0 0 0 Copper ppm ASTM D5185m 2 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 ASTM D5185m 0 0 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 Roren ppm	Sample Date		Client Info		09 Jan 2024	11 Jul 2023	25 Jun 2023
Oil Changed Client Info N/A N/A N/A N/A ABNORMAL Sample Status method limit/base current history1 ABNORMAL WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >8 <1 0 <1 Chromium ppm ASTM D5185m >2 <1 0 0 Nickel ppm ASTM D5185m >2 0 0 0 Auminum ppm ASTM D5185m >2 0 0 0 Lead ppm ASTM D5185m >2 0 0 0 Vanadium ppm ASTM D5185m 0 0 1 0 Cadmium ppm ASTM D5185m 0 0 0 0 Adamium ppm ASTM D5185m 0 0 0 0 Adamium ppm ASTM D5185m 0 0 0 </th <th>Machine Age</th> <th>hrs</th> <th>Client Info</th> <th></th> <th>56514</th> <th>55972</th> <th>55972</th>	Machine Age	hrs	Client Info		56514	55972	55972
Sample Status NORMAL ABNORMAL ABNORMAL ABNORMAL WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >8 <1 0 <1 Chromium ppm ASTM D5185m 2 <1 0 0 Nickel ppm ASTM D5185m 2 0 0 0 Titanium ppm ASTM D5185m >2 0 0 0 Aluminum ppm ASTM D5185m >2 0 0 0 Lead ppm ASTM D5185m >2 0 0 0 Copper ppm ASTM D5185m 2 0 0 0 Vanadium ppm ASTM D5185m 0 0 0 0 Copper ppm ASTM D5185m 0 0 0 0 Boron ppm ASTM D5185m 0 0 0 0	Oil Age	hrs	Client Info		0	0	0
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >8 <1 0 <1 Chromium ppm ASTM D5185m >2 <1 0 0 Nickel ppm ASTM D5185m 0 0 0 0 Silver ppm ASTM D5185m >2 0 0 0 ALuminum ppm ASTM D5185m >2 0 0 0 Lead ppm ASTM D5185m >2 0 0 0 0 Vanadium ppm ASTM D5185m 0 0 <1 0 Vanadium ppm ASTM D5185m 0 0 0 0 Addenium ppm ASTM D5185m 0 0 0 0 Adaptesize ppm ASTM D5185m 0 0 0 0 Adaptesize ppm ASTM D5185m 0 0 0	Oil Changed		Client Info		N/A	N/A	N/A
Iron ppm ASTM D5185m >8 <1	Sample Status				NORMAL	ABNORMAL	ABNORMAL
Dr ASTM D5185m >2 <1	WEAR METALS		method	limit/base	current	history1	history2
Nickel ppm ASTM D5185m 0 0 0 Titanium ppm ASTM D5185m >2 0 0 0 Silver ppm ASTM D5185m >2 0 0 0 Aluminum ppm ASTM D5185m >2 0 0 0 Lead ppm ASTM D5185m >8 <1 <1 <1 Tin ppm ASTM D5185m >8 <1 <1 <1 Cadmium ppm ASTM D5185m 0 0 <1 0 Cadmium ppm ASTM D5185m 0 0 0 0 0 Boron ppm ASTM D5185m 0 0 0 0 0 Magnesium ppm ASTM D5185m 0 0 0 0 0 Calcium pm ASTM D5185m 0 0 0 0 0 Stilfor ppm ASTM D5185m 0 <	Iron	ppm	ASTM D5185m	>8	<1	0	<1
Titanium ppm ASTM D5185m 0 0 0 0 Silver ppm ASTM D5185m >2 0 0 0 Aluminum ppm ASTM D5185m >2 0 0 0 Lead ppm ASTM D5185m >2 0 0 0 Copper ppm ASTM D5185m >2 0 0 0 Vanadium ppm ASTM D5185m >4 0 0 <1 Vanadium ppm ASTM D5185m 0 0 0 0 0 Addinium ppm ASTM D5185m 0 0 0 0 0 Maganese ppm ASTM D5185m 0 0 0 0 0 Maganese ppm ASTM D5185m 0 0 0 0 0 Maganese ppm ASTM D5185m 0 0 0 0 0 Solutum ppm AS	Chromium	ppm	ASTM D5185m	>2	<1	0	0
Silver ppm ASTM D5185m >2 0 0 Aluminum ppm ASTM D5185m >3 2 <1 0 Lead ppm ASTM D5185m >2 0 0 0 Copper ppm ASTM D5185m >8 <1 <1 <1 Tin ppm ASTM D5185m 0 0 <10 0 Cadmium ppm ASTM D5185m 0 0 0 0 Addition ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 Boron ppm ASTM D5185m 0 0 0 0 Magnesium ppm ASTM D5185m 0 0 0 0 Magnesium ppm ASTM D5185m 0 0 0 0 Solicon ppm ASTM D5185m 10 0 0 0	Nickel	ppm	ASTM D5185m		0	0	0
Atuminum ppm ASTM D5185m >3 2 <1	Titanium	ppm	ASTM D5185m		0	0	0
Lead ppm ASTM D5185m >2 0 0 0 Copper ppm ASTM D5185m >8 <1 <1 <1 Tin ppm ASTM D5185m >4 0 0 <1 Vanadium ppm ASTM D5185m 0 0 <1 0 Cadmium ppm ASTM D5185m 0 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 0 0 Maganese ppm ASTM D5185m 0 0 <1 0 Calcium ppm ASTM D5185m 0 0 <1 0 Sulfur ppm ASTM D5185m 0 0 0 0 0 Sulfur ppm ASTM D5185m 0 0 0 0 23 CONTAMINANTS method limit/base current	Silver	ppm	ASTM D5185m	>2	0	0	0
Copper ppm ASTM D5185m >8 <1	Aluminum	ppm	ASTM D5185m	>3	2	<1	0
Copper ppm ASTM D5185m >8 <1	Lead	ppm	ASTM D5185m	>2	0	0	0
Tin ppm ASTM D5185m >4 0 0 <1	Copper		ASTM D5185m	>8	<1	<1	<1
Vanadium ppm ASTM D5185m 0 <1	Tin		ASTM D5185m	>4	0	0	<1
Cadmium ppm ASTM D5185m 0 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 Magnese ppm ASTM D5185m 0 0 -<1 0 Magnesium ppm ASTM D5185m 0 0 -<1 0 Calcium ppm ASTM D5185m 0 0 0 0 0 Sulfur ppm ASTM D5185m 0 0 0 0 0 Sulfur ppm ASTM D5185m 10 0 0 0 23 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m 2	Vanadium		ASTM D5185m			<1	0
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 <1 0 Magnesium ppm ASTM D5185m 0 0 0 <1 0 Calcium ppm ASTM D5185m 0 0 0 0 0 Phosphorus ppm ASTM D5185m 0 0 0 0 0 Sulfur ppm ASTM D5185m 10 0 0 23 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m<>15 15 13 14 Sodium ppm ASTM D5185m<>20 0 0 0 Potassium ppm ASTM D6304 3003	Cadmium	ppm	ASTM D5185m		0	0	0
Barium ppm ASTM D5185m 0 0 0 0 0 0 Molybdenum ppm ASTM D5185m 0 0 0 0 0 Maganese ppm ASTM D5185m 0 0 0 -<1 0 Magnesium ppm ASTM D5185m 0 0 -<1 0 Calcium ppm ASTM D5185m 0 0 0 0 0 Phosphorus ppm ASTM D5185m 0 0 0 0 0 Sulfur ppm ASTM D5185m 0 0 0 0 0 Sulfur ppm ASTM D5185m 10 0 0 23 0 0 0 Sodium ppm ASTM D5185m >15 15 13 14 4 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m 0 0 0 0 0 Marganese ppm ASTM D5185m 0 0 0 <1 0 Magnesium ppm ASTM D5185m 0 0 <1 0 Calcium ppm ASTM D5185m 0 0 0 0 Calcium ppm ASTM D5185m 0 0 0 0 0 Phosphorus ppm ASTM D5185m 0 0 0 0 0 0 Sulfur ppm ASTM D5185m 0 0 0 0 23 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 0 0 0 Potassium ppm ASTM D5185m >20 0 0 0 Water % ASTM D6304 >300 286 1558.3 649.2 Part	Boron	ppm	ASTM D5185m	0	0	0	0
Marganese ppm ASTM D5185m 0 0 0 <1	Barium	ppm	ASTM D5185m	0	0	0	0
Magnesium ppm ASTM D5185m 0 0 <1	Molybdenum	ppm	ASTM D5185m	0	0	0	0
Calcium ppm ASTM D5185m 0 0 0 0 0 Phosphorus ppm ASTM D5185m 5 33 5 3 Zinc ppm ASTM D5185m 0 0 0 0 Sulfur ppm ASTM D5185m 10 0 0 23 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m 15 15 13 14 Sodium ppm ASTM D5185m >10 0 0 0 Potassium ppm ASTM D5185m >20 0 0 0 Water % ASTM D5044 >0.03 0.028 0.155 0.064 ppm Water ppm ASTM D7647 >10000 347 649 3702 Particles >4µm ASTM D7647 >2500 92 133 715 Particles >50µm ASTM D7647 >250 92	Manganese	ppm	ASTM D5185m	0	0	0	<1
Phosphorus ppm ASTM D5185m 5 33 5 3 Zinc ppm ASTM D5185m 0 0 0 0 23 Sulfur ppm ASTM D5185m 10 0 0 0 23 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 15 13 14 Sodium ppm ASTM D5185m >20 0 0 0 Potassium ppm ASTM D5185m >20 0 0 0 Water % ASTM D50304 >0.03 0.028 0.155 ▲ 0.064 ppm Water ppm ASTM D7647 300 286 ▲ 1558.3 ▲ 649.2 Particles >4µm ASTM D7647 >10000 347 649 3702 Particles >4µm ASTM D7647 >20 92 133 715 Particles >4µm ASTM D7647 >80	Magnesium	ppm	ASTM D5185m	0	0	<1	0
Zinc ppm ASTM D5185m 0 0 0 0 0 0 0 0 0 0 0 0 23 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 15 13 14 Sodium ppm ASTM D5185m >20 0 0 0 0 Potassium ppm ASTM D5185m >20 0 0 0 Water % ASTM D5185m >20 0 0 0 0 Water % ASTM D5034 >0.03 0.028 0.155 0.064 ppm ASTM D7647 >300 286 1558.3 649.2 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >200 92 133 715 Particles >21µm ASTM D7647 320 7	Calcium	ppm	ASTM D5185m	0	0	0	0
Zinc ppm ASTM D5185m 0 0 0 0 0 0 0 0 0 0 0 0 23 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 15 13 14 Sodium ppm ASTM D5185m >15 15 13 14 Sodium ppm ASTM D5185m >15 15 13 14 Sodium ppm ASTM D5185m >20 0 0 0 0 Water % ASTM D6304 >0.03 0.028 0.155 0.064 0 ppm ASTM D6304 >300 286 1558.3 649.2 1558.3 649.2 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >10000 347 649 3702 33 715	Phosphorus	ppm	ASTM D5185m	5	33	5	3
Sulfur ppm ASTM D5185m 10 0 0 23 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 15 13 14 Sodium ppm ASTM D5185m >15 15 13 14 Sodium ppm ASTM D5185m >20 0 0 0 Potassium ppm ASTM D6304 >0.03 0.028 0.155 0.064 ppm Water % ASTM D6304 >300 286 1558.3 649.2 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >10000 347 649 3702 Particles >6µm ASTM D7647 >2500 92 133 715 Particles >14µm ASTM D7647 >320 7 18 12 Particles >21µm ASTM D7647 >20 0 0	Zinc	ppm	ASTM D5185m	0	0	0	0
Silicon ppm ASTM D5185m >15 15 13 14 Sodium ppm ASTM D5185m 20 0 0 0 Potassium ppm ASTM D5185m >20 0 0 0 Potassium ppm ASTM D5185m >20 0 0 0 Water % ASTM D6304 >0.03 0.028 0.155 0.064 oppm Water ppm ASTM D6304 >300 286 1558.3 649.2 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >10000 347 649 3702 Particles >6µm ASTM D7647 >2500 92 133 715 Particles >1µm ASTM D7647 >320 7 18 12 Particles >21µm ASTM D7647 >20 0 0 0 Particles >38µm ASTM D7647 >20 0 0 0 Oil Cleanliness ISO 4406 (c) >20/18/15 16/14/10 17/14/11 <th>Sulfur</th> <th></th> <th>ASTM D5185m</th> <th>10</th> <th>0</th> <th>0</th> <th>23</th>	Sulfur		ASTM D5185m	10	0	0	23
Sodium ppm ASTM D5185m 2 0 0 Potassium ppm ASTM D5185m<>20 0 0 0 Water % ASTM D5185m<>20 0 0 0 Water % ASTM D6304 >0.03 0.028 ▲ 0.155 ▲ 0.064 ppm Water ppm ASTM D6304 >300 286 ▲ 1558.3 ▲ 649.2 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >10000 347 649 3702 Particles >6µm ASTM D7647 >2500 92 133 715 Particles >6µm ASTM D7647 >320 7 18 12 Particles >14µm ASTM D7647 >80 1 5 1 Particles >38µm ASTM D7647 >20 0 0 0 Particles >71µm ASTM D7647 >4 0 0 0	CONTAMINANTS	;	method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 0 0 0 Water % ASTM D6304 >0.03 0.028 ▲ 0.155 ▲ 0.064 ppm Water ppm ASTM D6304 >300 286 ▲ 1558.3 ▲ 649.2 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >10000 347 649 3702 Particles >6µm ASTM D7647 >2500 92 133 715 Particles >6µm ASTM D7647 >320 7 18 12 Particles >14µm ASTM D7647 >20 0 0 0 Particles >21µm ASTM D7647 >20 0 0 0 Particles >38µm ASTM D7647 >4 0 0 0 0 OIl Cleanliness ISO 4406 (c) >20/18/15 16/14/10 17/14/11 19/17/11 FLUID DEGRADATION method limit/base current history1	Silicon	ppm	ASTM D5185m	>15	15	13	14
Water % ASTM D6304 >0.03 0.028 △ 0.155 △ 0.064 ppm Water ppm ASTM D6304 >300 286 △ 1558.3 △ 649.2 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >10000 347 649 3702 Particles >6µm ASTM D7647 >2500 92 133 715 Particles >14µm ASTM D7647 >320 7 18 12 Particles >14µm ASTM D7647 >20 0 0 0 Particles >21µm ASTM D7647 >20 0 0 0 Particles >38µm ASTM D7647 >20 0 0 0 Particles >71µm ASTM D7647 >4 0 0 0 Oil Cleanliness ISO 4406 (c) >20/18/15 16/14/10 17/14/11 19/17/11 FLUID DEGRADATION method limit/base current history1 history2	Sodium	ppm	ASTM D5185m		2	0	0
ppm ASTM D6304 >300 286 ▲ 1558.3 ▲ 649.2 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >10000 347 649 3702 Particles >6µm ASTM D7647 >2500 92 133 715 Particles >14µm ASTM D7647 >320 7 18 12 Particles >14µm ASTM D7647 >320 7 18 12 Particles >21µm ASTM D7647 >20 0 0 0 Particles >38µm ASTM D7647 >4 0 0 0 Particles >71µm ASTM D7647 >4 0 0 0 Oil Cleanliness ISO 4406 (c) >20/18/15 16/14/10 17/14/11 19/17/11 FLUID DEGRADATION method limit/base current history1 history2	Potassium	ppm	ASTM D5185m	>20	0	0	0
FLUID CLEANLINESS method limit/base current history1 history2 Particles >4μm ASTM D7647 >10000 347 649 3702 Particles >6μm ASTM D7647 >2500 92 133 715 Particles >14μm ASTM D7647 >320 7 18 12 Particles >21μm ASTM D7647 >80 1 5 1 Particles >21μm ASTM D7647 >20 0 0 0 Particles >38μm ASTM D7647 >20 0 0 0 Particles >71μm ASTM D7647 >4 0 0 0 Oil Cleanliness ISO 4406 (c) >20/18/15 16/14/10 17/14/11 19/17/11 FLUID DEGRADATION method limit/base current history1 history2	Water	%	ASTM D6304	>0.03	0.028	0 .155	▲ 0.064
Particles >4μm ASTM D7647 >10000 347 649 3702 Particles >6μm ASTM D7647 >2500 92 133 715 Particles >14μm ASTM D7647 >320 7 18 12 Particles >21μm ASTM D7647 >80 1 5 1 Particles >21μm ASTM D7647 >20 0 0 0 Particles >38μm ASTM D7647 >20 0 0 0 Particles >71μm ASTM D7647 >4 0 0 0 Oli Cleanliness ISO 4406 (c) >20/18/15 16/14/10 17/14/11 19/17/11 FLUID DEGRADATION method limit/base current history1 history2	ppm Water	ppm	ASTM D6304	>300	286	▲ 1558.3	▲ 649.2
Particles >6μm ASTM D7647 >2500 92 133 715 Particles >14μm ASTM D7647 >320 7 18 12 Particles >21μm ASTM D7647 >80 1 5 1 Particles >21μm ASTM D7647 >80 1 5 1 Particles >38μm ASTM D7647 >20 0 0 0 Particles >38μm ASTM D7647 >20 0 0 0 Particles >71μm ASTM D7647 >4 0 0 0 Oil Cleanliness ISO 4406 (c) >20/18/15 16/14/10 17/14/11 19/17/11 FLUID DEGRADATION method limit/base current history1 history2	FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >14µm ASTM D7647 >320 7 18 12 Particles >21µm ASTM D7647 >80 1 5 1 Particles >38µm ASTM D7647 >20 0 0 0 Particles >37µm ASTM D7647 >4 0 0 0 Oil Cleanliness ISO 4406 (c) >20/18/15 16/14/10 17/14/11 19/17/11 FLUID DEGRADATION method limit/base current history1 history2	Particles >4µm		ASTM D7647	>10000	347	649	3702
Particles >21μm ASTM D7647 >80 1 5 1 Particles >38μm ASTM D7647 >20 0 0 0 Particles >38μm ASTM D7647 >20 0 0 0 Particles >71μm ASTM D7647 >4 0 0 0 Oil Cleanliness ISO 4406 (c) >20/18/15 16/14/10 17/14/11 19/17/11 FLUID DEGRADATION method limit/base current history1 history2	Particles >6µm		ASTM D7647	>2500	92	133	715
Particles >38μm ASTM D7647 >20 0 0 0 Particles >71μm ASTM D7647 >4 0 0 0 Oil Cleanliness ISO 4406 (c) >20/18/15 16/14/10 17/14/11 19/17/11 FLUID DEGRADATION method limit/base current history1 history2	Particles >14µm		ASTM D7647	>320	7	18	12
Particles >71μm ASTM D7647 >4 0 0 0 Oil Cleanliness ISO 4406 (c) >20/18/15 16/14/10 17/14/11 19/17/11 FLUID DEGRADATION method limit/base current history1 history2	Particles >21µm		ASTM D7647	>80	1	5	1
Oil Cleanliness ISO 4406 (c) >20/18/15 16/14/10 17/14/11 19/17/11 FLUID DEGRADATION method limit/base current history1 history2	Particles >38µm		ASTM D7647	>20	0	0	0
FLUID DEGRADATION method limit/base current history1 history2	Particles >71µm		ASTM D7647		0	0	0
	Oil Cleanliness		ISO 4406 (c)	>20/18/15	16/14/10	17/14/11	19/17/11
Acid Number (AN) mg KOH/g ASTM D8045 0.03 0.014 0.047 0.014	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D8045	0.03	0.014	0.047	0.014



OIL ANALYSIS REPORT

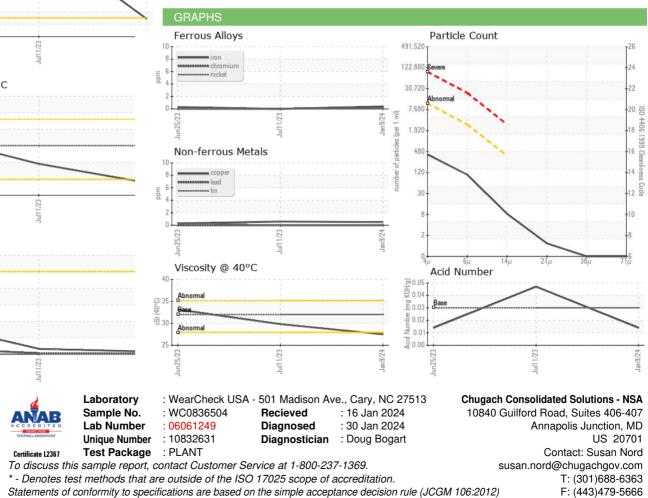






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.03	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	32.0	27.5	29.8	33.09
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
Color						
Detterre						

Bottom



Contact/Location: Susan Nord - CHUANN