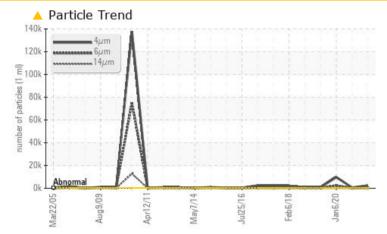


PROBLEM SUMMARY

Machine Id 420-290 2 PRESS

Component Hydraulic System Fluid MOBIL DTE 10 EXCEL 68 (100 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

PROBLEMATIC TE	EST RESULTS				
Sample Status			ABNORMAL	ATTENTION	ATTENTION
Particles >4µm	ASTM D7647	>320	<u> </u>	6 40	9720
Particles >6µm	ASTM D7647	>80	🔺 587	🔺 156	<u> </u>
Particles >14µm	ASTM D7647	>20	A 32	13	104
Particles >21µm	ASTM D7647	>4	<u> </u>	4	16
Oil Cleanliness	ISO 4406 (c)	>15/13/11	<u> </u>	▲ 16/14/11	2 0/18/14

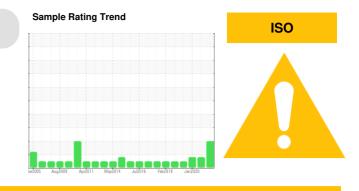
Customer Id: WEYNEW Sample No.: WC0799237 Lab Number: 05824356 Test Package: AOM 1



To manage this report scan the QR code

To discuss the diagnosis or test data: Doug Bogart +1 (800)237-1369 x4016 <u>dougb@wearcheckusa.com</u>

To change component or sample information: Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u>



RECOMMENDED AC	TIONS			
Action	Status	Date	Done By	Description
Change Filter			?	We recommend you service the filters on this component.

HISTORICAL DIAGNOSIS



21 Apr 2020 Diag: Jonathan Hester

No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



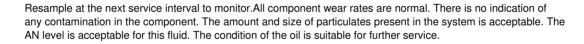
view report

06 Jan 2020 Diag: Doug Bogart



No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

14 Aug 2019 Diag: Doug Bogart









OIL ANALYSIS REPORT

Sample Rating Trend

Machine Id 420-290 2 PRESS Component

Hydraulic System MOBIL DTE 10 EXCEL 68 (100 GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Wear

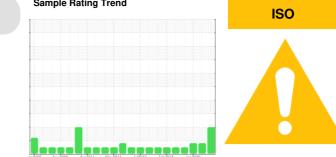
All component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil. MPC (Membrane Patch Colorimetry) test indicates acceptable levels of varnish present.

Fluid Condition

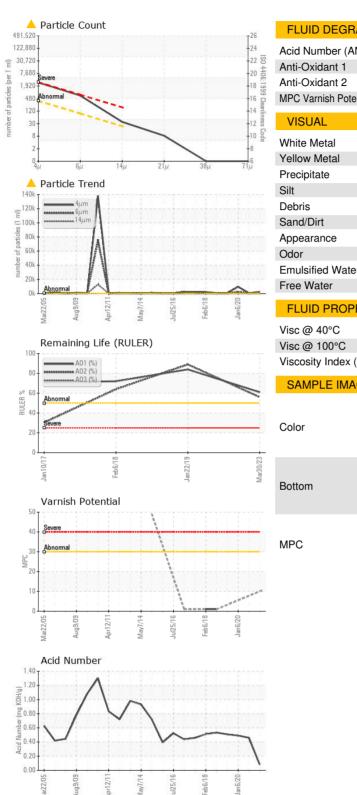
Linear Sweep Voltammetry (RULER - ASTM D6971) testing indicates normal levels of antioxidants present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



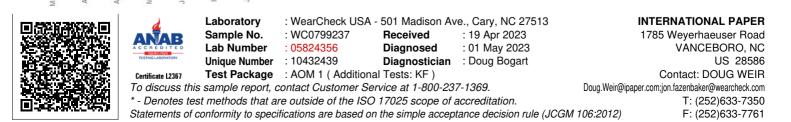
Sample Date Client Info 30 Mar 2023 21 Apr 2020 06 Jan 2020 Machine Age yrs Client Info 0 0 0 Oil Age yrs Client Info 0 0 0 Oil Changed Client Info N/A N/A N/A Sample Status Imathia Imathia ATTENTION ATTENTION WEAR METALS method Imit/base current History1 history2 Iron ppm ASTM D5185m >20 Q 0 <1			lar2005 Aug	12009 Apr2011 May	2014 Jul2016 Feb2018 .	Jan2020	
Sample Date Client Info 30 Mar 2023 21 Apr 2020 06 Jan 2020 Machine Age yrs Client Info 0 0 0 Oil Age yrs Client Info 0 0 0 Oil Changed Client Info N/A N/A N/A Sample Status Imit/base current history1 history2 Iron ppm ASTM 05185m >20 0 0 <11 Nickel ppm ASTM 05185m >20 0 0 <11 Nickel ppm ASTM 05185m >20 0 0 <11 Nickel ppm ASTM 05185m >20 0 <11 <11 Copper ppm ASTM 05185m >20 0 0 0 Attimany ppm ASTM 05185m >20 0 0 0 Attimany ppm ASTM 05185m >20 0 0 0 Attimany ppm AST	SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Machine AgeyrsClient Info000Oil AgeyrsClient Info000Oil ChangedClient InfoN/AN/AN/ASample StatusImit/basecurrentATTENTIONATTENTIONWEAR METALSmethodimit/basecurrenthistory1history2IronppmASTM D5185m>20212ChromiumppmASTM D5185m>2000<1NickelppmASTM D5185m>2000<1ItaniumppmASTM D5185m>2000<1AluminumppmASTM D5185m>200<1<1LeadppmASTM D5185m>20000AntimonyppmASTM D5185m>20000AntimonyppmASTM D5185m>20000AntimonyppmASTM D5185m0000AntimonyppmASTM D5185m01<11BaronpmASTM D5185m0000AdminumppmASTM D5185m0000Astm D5185m000<11111BaronppmASTM D5185m0000Astm D5185m000<11111Astm D5185m3468628991111Astm D	Sample Number		Client Info		WC0799237	RP0003910	RP0001017
Oil Age yrs Client Info 0 0 0 Oil Changed Client Info N/A N/A N/A N/A Sample Status Client Info N/A ATTENTION ATTENTION WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >20 0 0 <1 Nickel ppm ASTM D5185m >20 0 0 <1 Nickel ppm ASTM D5185m >20 0 0 <1 Aluminum ppm ASTM D5185m >20 0 0 <1 Lead ppm ASTM D5185m >20 0 0 0 Attminum ppm ASTM D5185m >20 0 0 0 Cadmium ppm ASTM D5185m >20 0 0 0 Attminum ppm ASTM D5185m >0 0 0 0 Conta	Sample Date		Client Info		30 Mar 2023	21 Apr 2020	06 Jan 2020
Oil Changed Oil Changed Client Info N/A N/A N/A N/A N/A Sample Status Client Info N/A ATTENTION ATTENTION WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >20 0 0 <1	Machine Age	yrs	Client Info		0	0	0
Sample Status method Imit/base current history1 history2 Iron ppm ASTM D5185m >20 2 1 2 Chromium ppm ASTM D5185m >20 0 0 <1 Nickel ppm ASTM D5185m >20 0 0 <1 Nickel ppm ASTM D5185m 20 0 0 <1 Aluminum ppm ASTM D5185m 20 0 <1 <1 Copper ppm ASTM D5185m >20 0 <1 1 Tin ppm ASTM D5185m >20 0 0 0 Copper ppm ASTM D5185m >20 0 0 0 Cadmium ppm ASTM D5185m >20 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 <td< th=""><th>Oil Age</th><th>yrs</th><th>Client Info</th><th></th><th>0</th><th>0</th><th>0</th></td<>	Oil Age	yrs	Client Info		0	0	0
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5165m >20 0 0 <1 2 Chromium ppm ASTM D5165m >20 0 0 <1 2 Nickel ppm ASTM D5165m >20 0 0 <1 Nickel ppm ASTM D5165m >20 0 0 <1 Aluminum ppm ASTM D5165m >20 0 <1 <1 Lead ppm ASTM D5165m >20 0 <1 <1 Copper ppm ASTM D5165m >20 0 0 0 Antimony ppm ASTM D5165m = 0 0 0 Antimony ppm ASTM D5165m 0 0 0 0 Antimony ppm ASTM D5165m 0 0 0 0 Antimony ppm ASTM D5165m 0	Oil Changed		Client Info		N/A	N/A	N/A
Iron ppm ASTM D5185m >20 2 1 2 Chromium ppm ASTM D5185m >20 0 0 <1 Nickel ppm ASTM D5185m >20 0 0 <1 Nickel ppm ASTM D5185m >20 0 0 <1 Silver ppm ASTM D5185m >20 0 0 <1 Auminum ppm ASTM D5185m >20 0 <1 <1 Lead ppm ASTM D5185m >20 0 0 0 0 Attimony ppm ASTM D5185m >20 0 0 0 0 Attimony ppm ASTM D5185m 0 0 0 0 Attimony ppm ASTM D5185m 0 0 0 0 Attimony ppm ASTM D5185m 0 0 0 <1 Barium ppm ASTM D5185m 0 0<	Sample Status				ABNORMAL	ATTENTION	ATTENTION
pr ASTM D5185m >20 0 0 <1	WEAR METALS		method	limit/base	current	history1	history2
Nickel ppm ASTM D5185m >20 0 0 <1	Iron	ppm	ASTM D5185m	>20	2	1	2
Titanium ppm ASTM D5185m 0 0 0 0 Silver ppm ASTM D5185m >20 0 <1 1 Aluminum ppm ASTM D5185m >20 0 <1 <1 Lead ppm ASTM D5185m >20 <1 <1 <1 Copper ppm ASTM D5185m >20 <1 <1 1 Tin ppm ASTM D5185m >20 0 0 0 Antimony ppm ASTM D5185m 0 0 0 0 Vanadium ppm ASTM D5185m 0 1 <1 1 Boron ppm ASTM D5185m 0 1 <1 0 Magnaese ppm ASTM D5185m 0 0 0 <1 Magnaese ppm ASTM D5185m 106 114 111 Phosphorus ppm ASTM D5185m 26 899 21 <1	Chromium	ppm	ASTM D5185m	>20	0	0	<1
Silver ppm ASTM D5185m >20 0 <1	Nickel	ppm	ASTM D5185m	>20	0	0	<1
Aluminum ppm ASTM D5185m >20 0 0 <1	Titanium	ppm	ASTM D5185m		0	0	0
Lead ppm ASTM D5185m >20 0 <1 <1 Copper ppm ASTM D5185m >20 <1 <1 1 Tin ppm ASTM D5185m >20 0 0 0 Antimony ppm ASTM D5185m >20 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 history2 Boron ppm ASTM D5185m 0 1 <1 Maganese ppm ASTM D5185m 0 0 <1 Magnesium ppm ASTM D5185m 106 114 1111 Phosphorus ppm ASTM D5185m 346 862 899 Zinc ppm ASTM D5185m 1113 1137 1234 CONTAMINANTS method	Silver	ppm	ASTM D5185m		0	0	<1
Copper ppm ASTM D5185m >20 <1	Aluminum	ppm	ASTM D5185m	>20	0	0	<1
Tin ppm ASTM D5185m >20 0 0 0 Antimony ppm ASTM D5185m 0 0 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 0 1 <1 Barium ppm ASTM D5185m 0 0 0 Molybdenum ppm ASTM D5185m 0 0 <1 11 Magnesium ppm ASTM D5185m 0 0 <1 11 Phosphorus ppm ASTM D5185m 346 862 899 20 Sulfur ppm ASTM D5185m 346 862 899 20 24 240 260 Sulfur ppm ASTM D5185m 100 <1 113 1137 <td< th=""><th>Lead</th><th>ppm</th><th>ASTM D5185m</th><th>>20</th><th>0</th><th><1</th><th><1</th></td<>	Lead	ppm	ASTM D5185m	>20	0	<1	<1
Antimony ppm ASTM D5185m 0 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 0 1 <1 Barium ppm ASTM D5185m 0 0 0 Molybdenum ppm ASTM D5185m 0 0 0 Magnese ppm ASTM D5185m 0 0 0 Magnesium ppm ASTM D5185m 106 114 111 Phosphorus ppm ASTM D5185m 346 862 899 Zinc ppm ASTM D5185m 1113 1137 1234 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m 20 <1 <1	Copper	ppm	ASTM D5185m	>20	<1	<1	1
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 0 1 <1 Barium ppm ASTM D5185m 0 0 0 Molybdenum ppm ASTM D5185m 0 0 0 Maganese ppm ASTM D5185m 0 0 <1 Calcium ppm ASTM D5185m <1 <1 <1 Calcium ppm ASTM D5185m 346 862 899 Zinc ppm ASTM D5185m 346 862 899 Zinc ppm ASTM D5185m 1113 1137 1234 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m 20 <1 <1 <1	Tin	ppm	ASTM D5185m	>20	0	0	
Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 1 <1	Antimony	ppm	ASTM D5185m			0	0
ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 1 <1 Barium ppm ASTM D5185m 0 <1 0 Molybdenum ppm ASTM D5185m 0 0 0 Manganese ppm ASTM D5185m 0 0 <1 Magnesium ppm ASTM D5185m <1 <1 <1 Calcium ppm ASTM D5185m <106 1144 111 Phosphorus ppm ASTM D5185m 3466 862 899 Zinc ppm ASTM D5185m 3466 862 899 Sulfur ppm ASTM D5185m 346 862 899 Sulfur ppm ASTM D5185m 1113 1137 1234 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 <1 <t< th=""><th>Vanadium</th><th>ppm</th><th>ASTM D5185m</th><th></th><th>0</th><th>0</th><th>0</th></t<>	Vanadium	ppm	ASTM D5185m		0	0	0
Boron ppm ASTM D5185m 0 1 <1	Cadmium	ppm	ASTM D5185m		0	0	0
Barium ppm ASTM D5185m 0 <1	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m 0 0 0 Manganese ppm ASTM D5185m 0 0 <1 Magnesium ppm ASTM D5185m <1 <1 <1 Calcium ppm ASTM D5185m <106 114 111 Phosphorus ppm ASTM D5185m 346 862 899 Zinc ppm ASTM D5185m 346 862 899 Zinc ppm ASTM D5185m 7 248 260 Sulfur ppm ASTM D5185m 1113 1137 1234 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15< <1 0 <1 Sodium ppm ASTM D5185m >20 <1 <1 <1 Stilicon ppm ASTM D5185m >20 <1 <1 <1 Vater % ASTM D6304 >0	Boron	ppm	ASTM D5185m		0	1	<1
Manganese ppm ASTM D5185m 0 0 <1	Barium	ppm	ASTM D5185m		0	<1	0
Magnesium ppm ASTM D5185m <1	Molybdenum	ppm	ASTM D5185m		0	0	0
Calcium ppm ASTM D5185m 106 114 111 Phosphorus ppm ASTM D5185m 346 862 899 Zinc ppm ASTM D5185m 7 248 260 Sulfur ppm ASTM D5185m 7 248 260 Sulfur ppm ASTM D5185m 1113 1137 1234 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 <1 0 <1 Sodium ppm ASTM D5185m >20 <1 <1 <1 Vater % ASTM D6304 >0.05 0.006 0.016 0.017 ppm Water ppm ASTM D6304 >500 65.0 162.0 177.1 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >320 2472 640 9720 <td< th=""><th>Manganese</th><th>ppm</th><th>ASTM D5185m</th><th></th><th>0</th><th>0</th><th><1</th></td<>	Manganese	ppm	ASTM D5185m		0	0	<1
Phosphorus ppm ASTM D5185m 346 862 899 Zinc ppm ASTM D5185m 7 248 260 Sulfur ppm ASTM D5185m 1113 1137 1234 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 <1 0 <1 Sodium ppm ASTM D5185m >15 <1 0 <1 Sodium ppm ASTM D5185m >20 <1 <1 <1 Vater % ASTM D5185m >20 <1 <1 <1 Water % ASTM D5304 >0.05 0.006 0.016 0.017 ppm Water ppm ASTM D6304 >500 65.0 162.0 177.1 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >320 2472 640 9720 </th <th>Magnesium</th> <th>ppm</th> <th>ASTM D5185m</th> <th></th> <th><1</th> <th><1</th> <th><1</th>	Magnesium	ppm	ASTM D5185m		<1	<1	<1
Zinc ppm ASTM D5185m 7 248 260 Sulfur ppm ASTM D5185m 1113 1137 1234 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 <1 0 <1 Sodium ppm ASTM D5185m >15 <1 0 <1 Sodium ppm ASTM D5185m >20 <1 <1 <1 Potassium ppm ASTM D5185m >20 <1 <1 <1 Water % ASTM D6304 >0.05 0.006 0.016 0.017 ppm Water ppm ASTM D6304 >500 65.0 162.0 177.1 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >320 2472 640 9720 Particles >6µm ASTM D7647 >30 32 13 <td< th=""><th>Calcium</th><th>ppm</th><th>ASTM D5185m</th><th></th><th>106</th><th>114</th><th>111</th></td<>	Calcium	ppm	ASTM D5185m		106	114	111
Sulfur ppm ASTM D5185m 1113 1137 1234 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 <1	Phosphorus	ppm	ASTM D5185m		346	862	899
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 <1 0 <1 Sodium ppm ASTM D5185m >15 <1 0 <1 Sodium ppm ASTM D5185m >20 <1 <1 <1 Potassium ppm ASTM D5185m >20 <1 <1 <1 Water % ASTM D6304 >0.05 0.006 0.016 0.017 ppm Water ppm ASTM D6304 >500 65.0 162.0 177.1 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >320 2472 640 9720 Particles >6µm ASTM D7647 >320 32 13 104 Particles >14µm ASTM D7647 >20 32 13 104 Particles >38µm ASTM D7647 >3 0 0	Zinc	ppm	ASTM D5185m		7	248	260
Silicon ppm ASTM D5185m >15 <1	Sulfur	ppm	ASTM D5185m		1113	1137	1234
Sodium ppm ASTM D5185m 0 3 0 Potassium ppm ASTM D5185m >20 <1 <1 <1 Water % ASTM D6304 >0.05 0.006 0.016 0.017 ppm Water ppm ASTM D6304 >500 65.0 162.0 177.1 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >320 2472 ▲ 640 9720 Particles >6µm ASTM D7647 >80 ▲ 587 ▲ 156 2416 Particles >14µm ASTM D7647 >20 ▲ 32 13 104 Particles >21µm ASTM D7647 >4 7 4 16 Particles >38µm ASTM D7647 >3 0 0 0 Particles >71µm ASTM D7647 >3 0 0 0	CONTAMINANTS		method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 <1	Silicon	ppm	ASTM D5185m	>15	<1	0	<1
Water % ASTM D6304 >0.05 0.006 0.016 0.017 ppm Water ppm ASTM D6304 >500 65.0 162.0 177.1 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >320 2472 ▲ 640 ▲ 9720 Particles >6µm ASTM D7647 >80 ▲ 587 ▲ 156 ▲ 2416 Particles >14µm ASTM D7647 >20 ▲ 32 13 104 Particles >21µm ASTM D7647 >4 ▲ 7 4 16 Particles >38µm ASTM D7647 >3 0 0 0 Particles >71µm ASTM D7647 >3 0 0 0	Sodium	ppm	ASTM D5185m		0	3	0
ppm Water ppm ASTM D6304 >500 65.0 162.0 177.1 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >320 2472 640 9720 Particles >6µm ASTM D7647 >80 587 156 2416 Particles >14µm ASTM D7647 >20 32 13 104 Particles >14µm ASTM D7647 >3 0 0 0 Particles >21µm ASTM D7647 >3 0 0 0 Particles >38µm ASTM D7647 >3 0 0 0	Potassium	ppm	ASTM D5185m	>20	<1	<1	<1
FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >320 ▲ 2472 ▲ 640 ▲ 9720 Particles >6µm ASTM D7647 >80 ▲ 587 ▲ 156 ▲ 2416 Particles >14µm ASTM D7647 >20 ▲ 32 13 104 Particles >21µm ASTM D7647 >4 ▲ 7 4 16 Particles >38µm ASTM D7647 >3 0 0 0 Particles >71µm ASTM D7647 >3 0 0 0	Water	%	ASTM D6304	>0.05	0.006	0.016	0.017
Particles >4μm ASTM D7647 >320 2472 640 9720 Particles >6μm ASTM D7647 >80 587 156 2416 Particles >14μm ASTM D7647 >20 32 13 104 Particles >14μm ASTM D7647 >4 7 4 16 Particles >21μm ASTM D7647 >3 0 0 0 Particles >38μm ASTM D7647 >3 0 0 0 Particles >71μm ASTM D7647 >3 0 0 0	ppm Water	ppm	ASTM D6304	>500	65.0	162.0	177.1
Particles >6μm ASTM D7647 >80 ▲ 587 ▲ 156 ▲ 2416 Particles >14μm ASTM D7647 >20 ▲ 32 13 104 Particles >21μm ASTM D7647 >4 ▲ 7 4 16 Particles >38μm ASTM D7647 >3 0 0 0 Particles >71μm ASTM D7647 >3 0 0 0	FLUID CLEANLINI	ESS	method	limit/base	current	history1	history2
Particles >14μm ASTM D7647 >20 ▲ 32 13 104 Particles >21μm ASTM D7647 >4 ▲ 7 4 16 Particles >38μm ASTM D7647 >3 0 0 0 Particles >71μm ASTM D7647 >3 0 0 0	Particles >4µm		ASTM D7647	>320	<u> </u>	6 40	9 720
Particles >21μm ASTM D7647 >4 A 16 Particles >38μm ASTM D7647 >3 0 0 0 Particles >71μm ASTM D7647 >3 0 0 0	Particles >6µm		ASTM D7647	>80	<u> </u>	1 56	4 2416
Particles >38μm ASTM D7647 >3 0 0 0 Particles >71μm ASTM D7647 >3 0 0 0	Particles >14µm		ASTM D7647	>20	<u> </u>	13	104
Particles >71μm ASTM D7647 >3 0 0 0	Particles >21µm		ASTM D7647	>4	<u> </u>	4	16
	Particles >38µm		ASTM D7647	>3	0	0	0
Oil Cleanliness ISO 4406 (c) >15/13/11 🔺 18/16/12 🔺 16/14/11 🔺 20/18/14	Particles >71µm		ASTM D7647	>3	0	0	0
			ISO 1106 (c)	\15/13/11	4 19/16/10	A 16/1//11	A 20/18/17



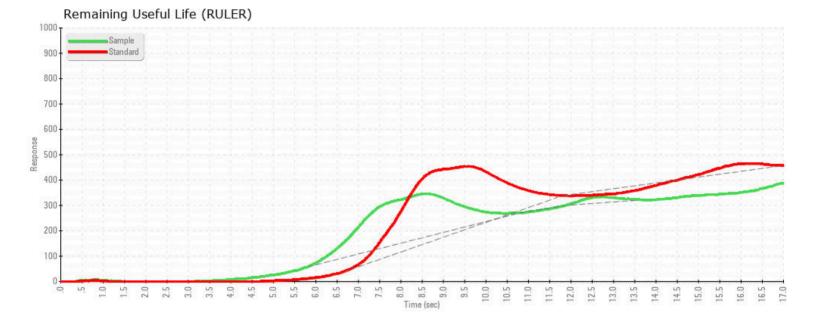
OIL ANALYSIS REPORT

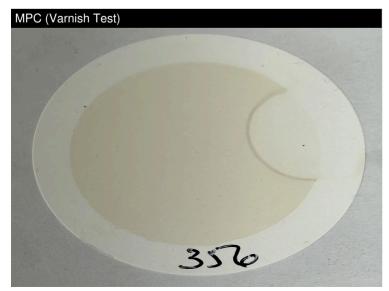


	TION	method	limit/base	ourropt	history1	history2
FLUID DEGRADA			initi base	current	motory	
cid Number (AN)	mg KOH/g	ASTM D8045		0.08	0.460	0.490
nti-Oxidant 1	%	ASTM D6971	<25	61		
nti-Oxidant 2	%	ASTM D6971	<25	56		
IPC Varnish Potential	Scale	ASTM D7843	>15	10		
VISUAL		method	limit/base	current	history1	history2
Vhite Metal	scalar	*Visual	NONE	NONE	NONE	NONE
ellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
ilt	scalar	*Visual	NONE	NONE	NONE	NONE
ebris	scalar	*Visual	NONE	NONE	NONE	NONE
and/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
ppearance	scalar	*Visual	NORML	NORML	NORML	NORML
dor	scalar	*Visual	NORML	NORML	NORML	NORML
mulsified Water	scalar	*Visual	>0.05	NEG	NEG	NEG
ree Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
	IES cSt	method ASTM D445	limit/base 68.4	current 65.14	history1 64.5	history2 64.4
′isc @ 40°C						
/isc @ 40°C /isc @ 100°C	cSt	ASTM D445	68.4	65.14	64.5	64.4
′isc @ 40°C ⁄isc @ 100°C ⁄iscosity Index (VI)	cSt cSt Scale	ASTM D445 ASTM D445	68.4 11.17	65.14 10.54	64.5	64.4
FLUID PROPERT /isc @ 40°C /isc @ 100°C /iscosity Index (VI) SAMPLE IMAGES	cSt cSt Scale	ASTM D445 ASTM D445 ASTM D2270	68.4 11.17 156	65.14 10.54 150	64.5 	64.4
/isc @ 40°C /isc @ 100°C /iscosity Index (VI)	cSt cSt Scale	ASTM D445 ASTM D445 ASTM D2270	68.4 11.17 156	65.14 10.54 150	64.5 	64.4
/isc @ 40°C /isc @ 100°C /iscosity Index (VI) SAMPLE IMAGES	cSt cSt Scale	ASTM D445 ASTM D445 ASTM D2270	68.4 11.17 156	65.14 10.54 150	64.5 	64.4
/isc @ 40°C /isc @ 100°C /iscosity Index (VI) SAMPLE IMAGES	cSt cSt Scale	ASTM D445 ASTM D445 ASTM D2270	68.4 11.17 156	65.14 10.54 150	64.5 	64.4
risc @ 40°C risc @ 100°C riscosity Index (VI) SAMPLE IMAGES Color	cSt cSt Scale	ASTM D445 ASTM D445 ASTM D2270	68.4 11.17 156	65.14 10.54 150	64.5 	64.4
/isc @ 40°C /isc @ 100°C /iscosity Index (VI) SAMPLE IMAGES Color	cSt cSt Scale	ASTM D445 ASTM D445 ASTM D2270	68.4 11.17 156	65.14 10.54 150	64.5 	64.4
/isc @ 40°C /isc @ 100°C /iscosity Index (VI) SAMPLE IMAGES Color	cSt cSt Scale	ASTM D445 ASTM D445 ASTM D2270	68.4 11.17 156	65.14 10.54 150	64.5 history1	64.4 history2
/isc @ 40°C /isc @ 100°C /iscosity Index (VI) SAMPLE IMAGES	cSt cSt Scale	ASTM D445 ASTM D445 ASTM D2270	68.4 11.17 156	65.14 10.54 150	64.5 	64.4



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