

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

Store 4 - Fairmont

MOBIL ISO AW 46

Component New (Unused) Oil

{not provided} (--- GAL)

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RECOMMENDATION
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This is a baseline read-out on the submitted sample.

WEAR

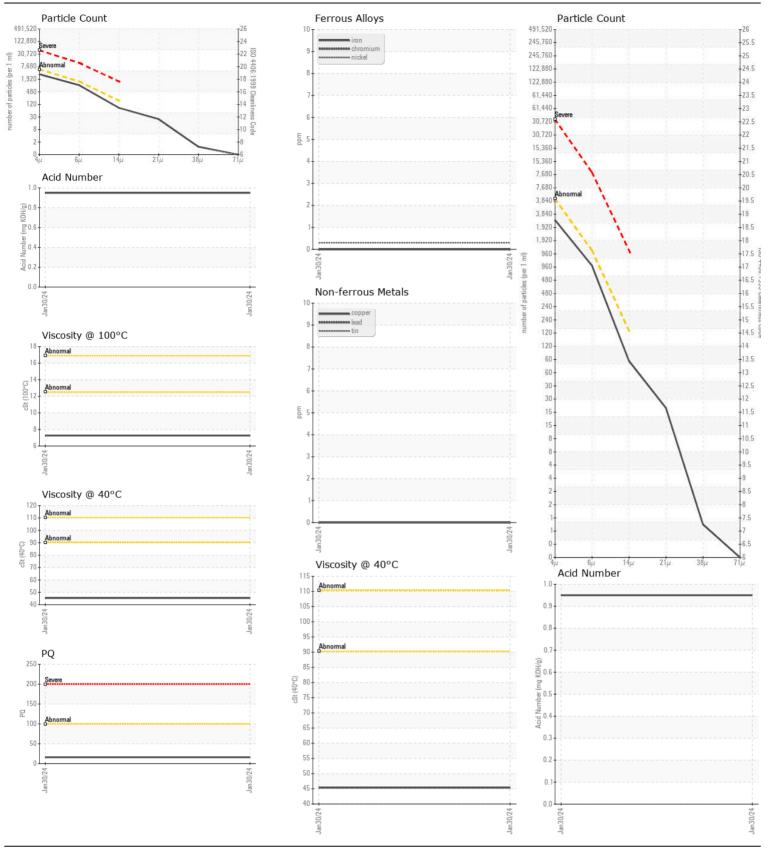
CONTAMINATION

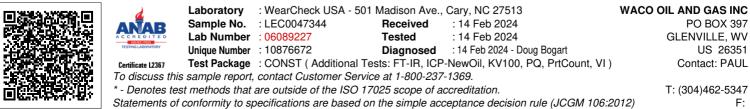
There is no indication of any contamination in the oil. The amount and size of particulates present are acceptable.

FLUID CONDITION

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

Test UOM Method LimitAbr Current History1 History2 Sample Number Client Info UE0047344 Machine Age hrs Client Info 0 Oil Age hrs Client Info 0 Oil Age hrs Client Info 0 Oil Changed Client Info N/A Sample Status NORMAL Sample Status N/A PQ ASTM D8185m 0 Silver ppm ASTM D8185m 0 Silver ppm ASTM D8185m 0 Auuminum ppm ASTM D8185m 0 Silver ppm ASTM D8185m 0 Vanadium ppm ASTM D51							
Sample Number Client Info LEC0047344 Sample Date Client Info 0 Oil Age hrs Client Info 0 Oil Age hrs Client Info 0 Filter Age nrs Client Info N/A Sample Status Client Info N/A PQ ASTM D5185m 0 Nickel ppm ASTM D5185m 0 Nickel ppm ASTM D5185m 0 Aluminum ppm ASTM D5185m 0 Aluminum ppm ASTM D5185m 0 Vanadum ppm ASTM D5185m 0 Valadium ppm ASTM D5185m 0 <td< th=""><th>Test</th><th>UOM</th><th>Method</th><th>Limit/Abn</th><th>Current</th><th>Historv1</th><th>Historv2</th></td<>	Test	UOM	Method	Limit/Abn	Current	Historv1	Historv2
Sample Date Client Info 30 Jan 2024 Machine Age hrs Client Info 0 Filter Age hrs Client Info 0 Filter Changed Client Info N/A Filter Changed Client Info N/A PQ ASTM D5185m 0 Iron ppm ASTM D5185m 0 Nickel ppm ASTM D5185m 0 Nickel ppm ASTM D5185m 0 Auminum ppm ASTM D5185m 0 Lead ppm ASTM D5185m 0 Vanadium ppm ASTM D5185m 0 Vanadium ppm ASTM D5185m 20 0 Valadium ppm <			Client Info				
Machine Age Dil Age Hrs hrs Client Info 0 Oil Age Dil Changed Oil Changed Client Info N/A PQ ASTM D8184 16 PQ ASTM D8184 16 PQ ASTM D5185m 0 Nickel ppm ASTM D5185m 0 Nickel ppm ASTM D5185m 0 Aluminum ppm ASTM D5185m 0 Aluminum ppm ASTM D5185m 0 Aluminum ppm ASTM D5185m 0 Vanadium ppm ASTM D5185m 0 Vanadium ppm ASTM D5185m 0 Valide Metal scalar Visual <none< td=""> NONE Silicon ppm</none<>			Client Info		30 Jan 2024		
Filter Åge Oli Changed hrs Client Info N/A Filter Changed Client Info N/A Filter Changed Client Info N/A Sample Status NORMAL PQ ASTM D5185m 0 Iron ppm ASTM D5185m 0 Nickel ppm ASTM D5185m 0 Silver ppm ASTM D5185m 0 Copper ppm ASTM D5185m 0 Vanadium ppm ASTM D5185m 20 0 Yellow Metal scalar Yusual </th <th></th> <th>hrs</th> <th>Client Info</th> <th></th> <th>0</th> <th></th> <th></th>		hrs	Client Info		0		
Oil Changed Client Info N/A Filter Changed Client Info N/A Sample Status NORMAL PQ ASTM D5185m O Chromium ppm ASTM D5185m O Nickel ppm ASTM D5185m O Aluminum ppm ASTM D5185m O Aluminum ppm ASTM D5185m O Vanadium ppm ASTM D5185m S20 O Vanadium ppm ASTM D5185m S20 O Silicon ppm ASTM	Oil Age	hrs	Client Info		0		
Filter Changed Sample Status Client Info N/A PQ ASTM D8184 16 Iron ppm ASTM D8185 0 Nickel ppm ASTM D8185 0 Nickel ppm ASTM D5185m 0 Nickel ppm ASTM D5185m 0 Silver ppm ASTM D5185m 0 Aluminum ppm ASTM D5185m 0 Copper ppm ASTM D5185m 0 Vanadium ppm ASTM D5185m 0 Vanadu ppm ASTM D5185m 0 Yellow Metal scalar *Visual NONE Silicon ppm ASTM D7647 >100 Particles >4µm		hrs	Client Info		0		
Sample Status NORMAL PQ ASTM D8184 16 Iron ppm ASTM D8185m 0 Nickel ppm ASTM D5185m 0 Nickel ppm ASTM D5185m 0 Silver ppm ASTM D5185m 0 Silver ppm ASTM D5185m 0 Lead ppm ASTM D5185m 0 Copper ppm ASTM D5185m 0 Vanadium ppm ASTM D5185m 0 Vanadium ppm ASTM D5185m 0 Yellow Metal scalar *Visual NONE Yellow Metal scalar *Visual NONE Particles >4µm ASTM D7647<>100 <	Oil Changed		Client Info		N/A		
PQ ASTM D8184 16 Iron ppm ASTM D5185m 0 Nickel ppm ASTM D5185m 0 Nickel ppm ASTM D5185m 0 Silver ppm ASTM D5185m 0 Aluminum ppm ASTM D5185m 0 Aluminum ppm ASTM D5185m 0 Vanadium ppm ASTM D5185m 0 Vanadium ppm ASTM D5185m 0 Vanadium ppm ASTM D5185m 0 Veltow Metal scalar *Visual NONE Silicon ppm ASTM D7647 >5000 2882 Particles >4µm ASTM D7647 >100 1	Filter Changed		Client Info		N/A		
PQ ASTM D8184 16 Iron ppm ASTM D5185m 0 Nickel ppm ASTM D5185m 0 Nickel ppm ASTM D5185m 0 Silver ppm ASTM D5185m 0 Aluminum ppm ASTM D5185m 0 Aluminum ppm ASTM D5185m 0 Vanadium ppm ASTM D5185m 0 Vanadium ppm ASTM D5185m 0 Vanadium ppm ASTM D5185m 0 Veltow Metal scalar *Visual NONE Silicon ppm ASTM D7647 >5000 2882 Particles >4µm ASTM D7647 >100 1	Sample Status				NORMAL		
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Nickel ppm ASTM D5185m <1	-	ppm			-		
Titanium ppm ASTM D5185m 0 Silver ppm ASTM D5185m 0 Aluminum ppm ASTM D5185m 0 Lead ppm ASTM D5185m 0 Copper ppm ASTM D5185m 0 Vanadium ppm ASTM D5185m 0 Vanadium ppm ASTM D5185m 0 Valacd scalar "Visual NONE Silicon ppm ASTM D5185m <1 Patisessium ppm ASTM D7647 >0 2882 Particles >4µm ASTM D7647 >100 1 Particles >5µm ASTM D7647 >3 0 Particles >21µm ASTM D7647 >3 0					-		
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Aluminum ppm ASTM D5185m <1					-		
Lead ppm ASTM D5185m 0 Copper ppm ASTM D5185m 0 Tin ppm ASTM D5185m 0 Wanadium ppm ASTM D5185m 0 White Metal scalar *Visual NONE NONE Silicon ppm ASTM D5185m >20 0 Potassium ppm ASTM D5185m >20 0 Particles >4µm ASTM D7647 >5000 2882 Particles >6µm ASTM D7647 >100 873 Particles >71µm ASTM D7647 >10 1 Particles >71µm ASTM D7647 >10 1 Silt scalar *Visual NONE NONE Sodium ppm ASTM D5185m 0					-		
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Vanadium ppm ASTM D5185m 0 White Metal scalar *Visual NONE Yellow Metal scalar *Visual NONE Silicon ppm ASTM D5185m <1 Potassium ppm ASTM D5185m >20 0 Paticles >4µm ASTM D7647 >5000 2882 Particles >6µm ASTM D7647 >160 72 Particles >14µm ASTM D7647 >10 1 Particles >71µm ASTM D7647 >3 0 Particles >71µm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >19/17/14 19/17/13 Debris scalar *Visual NONE Sodium ppm <td< th=""><th></th><th></th><th></th><th></th><th>-</th><th></th><th></th></td<>					-		
White Metal scalar *Visual NONE Yellow Metal scalar *Visual NONE NONE Silicon ppm ASTM D5185m >20 0 Potassium ppm ASTM D5185m >20 0 Patticles >4µm ASTM D7647 >5000 2882 Particles >6µm ASTM D7647 >100 72 Particles >71µm ASTM D7647 >10 1 Particles >71µm ASTM D7647 >10 1 Particles >71µm ASTM D7647 >10 1 Particles >71µm ASTM D7647 >3 0 Silt scalar *Visual NONE NONE Debris scalar *Visual NORE					-		
Yellow Metal scalar *Visual NONE Silicon ppm ASTM D5185m <1 Potassium ppm ASTM D5185m >20 0 Paticles >4µm ASTM D7647 >5000 2882 Particles >6µm ASTM D7647 >100 72 Particles >14µm ASTM D7647 >10 1 Particles >14µm ASTM D7647 >10 1 Particles >14µm ASTM D7647 >10 1 Particles >38µm ASTM D7647 >10 1 Particles >34µm ASTM D7647 >3 0 Particles >51µm ASTM D7647 >3 0 Solit scalar *Visual NONE NONE Sodium ppm ASTM D5				NONE	-		
Silicon ppm ASTM D5185m <1				-	_		
Potassium ppm ASTM D5185m >20 0 Water WC Method NEG Particles >4µm ASTM D7647 >5000 2882 Particles >6µm ASTM D7647 >1300 873 Particles >14µm ASTM D7647 >160 72 Particles >21µm ASTM D7647 >40 21 Particles >38µm ASTM D7647 >3 0 Particles >38µm ASTM D7647 >3 0 Particles >71µm ASTM D7647 >3 0 Silt scalar *Visual NONE NONE Silt scalar *Visual NORM NORML Appearance scalar *Visual NORML NORML B	reliow Metal	scalar	visual	NONE	NUNE		
Potassium ppm ASTM D5185m >20 0 Water WC Method NEG Particles >4µm ASTM D7647 >5000 2882 Particles >6µm ASTM D7647 >1300 873 Particles >14µm ASTM D7647 >160 72 Particles >21µm ASTM D7647 >40 21 Particles >38µm ASTM D7647 >3 0 Particles >38µm ASTM D7647 >3 0 Particles >71µm ASTM D7647 >3 0 Silt scalar *Visual NONE NONE Silt scalar *Visual NORM NORML Appearance scalar *Visual NORML NORML B	Silicon	ppm	ASTM D5185m		<1		
Water WC Method NEG Particles >4µm ASTM D7647 >5000 2882 Particles >6µm ASTM D7647 >1300 873 Particles >6µm ASTM D7647 >160 72 Particles >14µm ASTM D7647 >40 21 Particles >38µm ASTM D7647 >40 21 Particles >71µm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >19/17/14 19/17/13 Silt scalar *Visual NONE NONE Debris scalar *Visual NORE Sand/Dirt scalar *Visual NORML NORML Appearance scalar *Visual NORML Boron				>20			
Particles >6µm ASTM D7647 >1300 873 Particles >14µm ASTM D7647 >160 72 Particles >21µm ASTM D7647 >40 21 Particles >38µm ASTM D7647 >10 1 Particles >71µm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >19/17/14 19/17/13 Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NORML NORML Appearance scalar *Visual NORML NORML Gdor scalar *Visual NORML NORML Boron ppm ASTM D5185m 0		le le			NEG		
Particles >6µm ASTM D7647 >1300 873 Particles >14µm ASTM D7647 >160 72 Particles >21µm ASTM D7647 >40 21 Particles >38µm ASTM D7647 >10 1 Particles >71µm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >19/17/14 19/17/13 Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NORML NORML Appearance scalar *Visual NORML NORML Gdor scalar *Visual NORML NORML Boron ppm ASTM D5185m 0	Particles >4um		ASTM D7647	>5000	2882		
Particles >21 µm ASTM D7647 >40 21 Particles >38µm ASTM D7647 >10 1 Particles >71µm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >19/17/14 19/17/13 Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NORML NORML Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Boron ppm ASTM D5185m 0 Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 11			ASTM D7647	>1300	873		
Particles >38µm ASTM D7647 >10 1 Particles >71µm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >19/17/14 19/17/13 Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Boron ppm ASTM D5185m 0 Barium ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 11	Particles >14µm		ASTM D7647	>160	72		
Particles >71µm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >19/17/14 19/17/13 Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Modor scalar *Visual NORML NORML Sodium ppm ASTM D5185m 0 Boron ppm ASTM D5185m 0 Molybdenum ppm ASTM D518	Particles >21µm		ASTM D7647	>40	21		
Oil Cleanliness ISO 4406 (c) >19/17/14 19/17/13 Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Cdor scalar *Visual NORML NORML Sodium ppm ASTM D5185m 0 Boron ppm ASTM D5185m o Molybdenum ppm	Particles >38µm		ASTM D7647	>10	1		
Siltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*VisualNORMLNEGBoronppmASTM D5185m0BariumppmASTM D5185m0MolybdenumppmASTM D5185m0MaganeseppmASTM D5185m0MagnesiumppmASTM D5185m75PhosphorusppmASTM D5185m346ZincppmASTM D5185m346SulfurppmASTM D5185m864Visc @ 40°CcStASTM D4450.95Visc @ 100°CcStASTM D4457.26	Particles >71µm		ASTM D7647	>3	0		
Debrisscalar*VisualNONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*VisualNORMLNEGBoronppmASTM D5185m0BariumppmASTM D5185m0MolybdenumppmASTM D5185m0MaganeseppmASTM D5185m0MagnesiumppmASTM D5185m11CalciumppmASTM D5185m346PhosphorusppmASTM D5185m346ZincppmASTM D5185m864SulfurppmASTM D5185m864Visc @ 40°CcStASTM D4450.95Visc @ 100°CcStASTM D4457.26	Oil Cleanliness		ISO 4406 (c)	>19/17/14	19/17/13		
Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual NORML NEG Sodium ppm ASTM D5185m 0 Boron ppm ASTM D5185m 0 Malganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 11 Phosphorus ppm ASTM D5185m 346 Sulfur	Silt	scalar	*Visual	NONE	NONE		
Appearance scalar *Visual NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual NORML NEG Sodium ppm ASTM D5185m 0 Boron ppm ASTM D5185m 3 Barium ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 0 Maganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 75 Visc ppm ASTM D5185m 346 Sulfur ppm ASTM D5185m 864	Debris	scalar	*Visual	NONE	NONE		
Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual NORML NEG Sodium ppm ASTM D5185m 0 Boron ppm ASTM D5185m 3 Barium ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 0 Maganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 0 Calcium ppm ASTM D5185m 11 Calcium ppm ASTM D5185m 346 Zinc ppm ASTM D5185m 346 Sulfur ppm ASTM D5185m 864 Visc @ 40°C cSt ASTM D8045 0.95	Sand/Dirt	scalar	*Visual	NONE	NONE		
Emulsified Water scalar *Visual NEG Sodium ppm ASTM D5185m 0 Boron ppm ASTM D5185m 3 Barium ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 0 Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 0 Calcium ppm ASTM D5185m 75 Phosphorus ppm ASTM D5185m 346 Zinc ppm ASTM D5185m 446 Sulfur ppm ASTM D5185m 864 Visc @ 40°C cSt ASTM D8045 0.95	Appearance	scalar	*Visual	NORML			
Sodium ppm ASTM D5185m 0 Boron ppm ASTM D5185m 3 Barium ppm ASTM D5185m 0 Barium ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 0 Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 0 Calcium ppm ASTM D5185m 75 Phosphorus ppm ASTM D5185m 346 Zinc ppm ASTM D5185m 346 Sulfur ppm ASTM D5185m 364 Sulfur ppm ASTM D5185m 364 Visc @ 40°C cSt ASTM D8045 0.95 <th></th> <th></th> <th></th> <th>NORML</th> <th></th> <th></th> <th></th>				NORML			
Boron ppm ASTM D5185m 3 Barium ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 0 Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 0 Calcium ppm ASTM D5185m 11 Calcium ppm ASTM D5185m 75 Phosphorus ppm ASTM D5185m 346 Zinc ppm ASTM D5185m 446 Sulfur ppm ASTM D5185m 864 Visc @ 40°C cSt ASTM D8045 0.95 Visc @ 100°C cSt ASTM D445 7.26	Emulsified Water	scalar	*Visual		NEG		
Boron ppm ASTM D5185m 3 Barium ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 0 Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 0 Calcium ppm ASTM D5185m 11 Calcium ppm ASTM D5185m 75 Phosphorus ppm ASTM D5185m 346 Zinc ppm ASTM D5185m 446 Sulfur ppm ASTM D5185m 864 Visc @ 40°C cSt ASTM D8045 0.95 Visc @ 100°C cSt ASTM D445 7.26	Sodium	nom	ASTM D5185m		0		
Barium ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m <1 Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 11 Calcium ppm ASTM D5185m 75 Phosphorus ppm ASTM D5185m 346 Zinc ppm ASTM D5185m 446 Sulfur ppm ASTM D5185m 864 Visc @ 40°C cSt ASTM D8045 0.95 Visc @ 100°C cSt ASTM D445 45.37	_				-		
Molybdenum ppm ASTM D5185m <1							
Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 11 Calcium ppm ASTM D5185m 75 Phosphorus ppm ASTM D5185m 346 Zinc ppm ASTM D5185m 446 Sulfur ppm ASTM D5185m 864 Acid Number (AN) mg KOH/g ASTM D8045 0.95 Visc @ 40°C cSt ASTM D445 45.37 Visc @ 100°C cSt ASTM D445 7.26							
Magnesium ppm ASTM D5185m 11 Calcium ppm ASTM D5185m 75 Phosphorus ppm ASTM D5185m 346 Zinc ppm ASTM D5185m 446 Sulfur ppm ASTM D5185m 864 Acid Number (AN) mg KOH/g ASTM D8045 0.95 Visc @ 40°C cSt ASTM D445 45.37 Visc @ 100°C cSt ASTM D445 7.26							
Calcium ppm ASTM D5185m 75 Phosphorus ppm ASTM D5185m 346 Zinc ppm ASTM D5185m 446 Sulfur ppm ASTM D5185m 864 Acid Number (AN) mg KOH/g ASTM D8045 0.95 Visc @ 40°C cSt ASTM D445 45.37 Visc @ 100°C cSt ASTM D445 7.26							
Phosphorus ppm ASTM D5185m 346 Zinc ppm ASTM D5185m 446 Sulfur ppm ASTM D5185m 864 Acid Number (AN) mg KOH/g ASTM D8045 0.95 Visc @ 40°C cSt ASTM D445 45.37 Visc @ 100°C cSt ASTM D445 7.26	U U						
Zinc ppm ASTM D5185m 446 Sulfur ppm ASTM D5185m 864 Acid Number (AN) mg KOH/g ASTM D8045 0.95 Visc @ 40°C cSt ASTM D445 45.37 Visc @ 100°C cSt ASTM D445 7.26							
Sulfur ppm ASTM D5185m 864 Acid Number (AN) mg KOH/g ASTM D8045 0.95 Visc @ 40°C cSt ASTM D445 45.37 Visc @ 100°C cSt ASTM D445 7.26							
Acid Number (AN) mg KOH/g ASTM D8045 0.95 Visc @ 40°C cSt ASTM D445 45.37 Visc @ 100°C cSt ASTM D445 7.26	Sulfur						
Visc @ 100°C cSt ASTM D445 7.26	Acid Number (AN)		ASTM D8045		0.95		
	Visc @ 40°C		ASTM D445		45.37		
Viscosity Index (VI) Scale ASTM D2270 121			ASTM D445		7.26		
	Viscosity Index (VI)	Scale	ASTM D2270		121		





Contact/Location: PAUL ? - WACGLE

Page 2 of 2