

ELIZABETH R CHASE [ELIZABETH R CHASE] 008 538269-8ER Component Starboard Genset

CHEVRON DELO 400 XLE 15W40 (5 GAL)

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No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

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All component wear rates are normal.

CONTAMINATION

There is no indication of any contamination in the oil.

FLUID CONDITION

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Sample DateClient Info22 Jun 202422 May 202414 Apr 2024Machine AgehrsClient Info441839763527Oil AgehrsClient Info442440396Filter AgehrsClient Info442440396Oil ChangedClient InfoChangedChangedChangedFilter ChangedClient InfoChangedChangedChanged					~		
Sample Date Client Info 22 Jun 2024 24 May 2024 14 Apr 2024 Machine Age hrs Client Info 4418 3976 3527 Oil Age hrs Client Info 442 440 396 Oil Changed Client Info 442 440 396 Oil Changed Client Info Changed Changed Changed Filter Changed Client Info Changed Changed Changed Sample Status - ATTENTION ATTENTION ATTENTION Iron ppm ASTM D5185m >20 0 1 Nickel ppm ASTM D5185m >12 2 3 4 Lead ppm ASTM D5185m >17 0 -1 1 13 Tin ppm ASTM D5185m >15 0 <1 2 1 Visual NONE NONE NONE NONE NONE NONE NONE Visual NONE <td< th=""><th>Test</th><th>UOM</th><th>Method</th><th>Limit/Abn</th><th>Current</th><th>History1</th><th>History2</th></td<>	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine Age hrs Client Info 4418 3976 3527 Oil Age hrs Client Info 442 440 396 Filter Age hrs Client Info Changed Changed Changed Oil Changed Client Info Changed Changed Changed Changed Sample Status	Sample Number		Client Info		MW0066045	MW0066001	MW0065672
Oil Age hrs Client Info 442 440 396 Filter Age hrs Client Info Changed Changed	Sample Date		Client Info		22 Jun 2024	22 May 2024	14 Apr 2024
Filter Age Oil ChangedhrsClient Info442440396Oil ChangedClient InfoChangedChanged ChangedChangedChangedSample StatusClient InfoATTENTIONATTENTIONATTENTIONIronppmASTM D5185m>50888ChromiumppmASTM D5185m>40<1<1NickelppmASTM D5185m>508888ChromiumppmASTM D5185m>500011TitaniumppmASTM D5185m>550000AluminumppmASTM D5185m>1223411LeadppmASTM D5185m>150<1211TinppmASTM D5185m>150<1<1111NoneASTM D5185m>20033111 <th>Machine Age</th> <th>hrs</th> <th>Client Info</th> <th></th> <th>4418</th> <th>3976</th> <th>3527</th>	Machine Age	hrs	Client Info		4418	3976	3527
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Oil ChangedClient InfoChangedChangedChangedChangedFilter ChangedClient InfoChangedChangedChangedChangedChangedSample StatusSTM D5185m>508888IronppmASTM D5185m>508888ChromiumppmASTM D5185m>2001NickelppmASTM D5185m>50000AluminumppmASTM D5185m>51000AluminumppmASTM D5185m>17000CopperppmASTM D5185m>70<11113TinppmASTM D5185m>70<111VanadiumppmASTM D5185m>70<111VanadiumppmASTM D5185m>50<1<12VanadiumppmASTM D5185m>200<1<1VisualNONENONENONENONENONEYellow Metalscalar*VisualNONENONENONESiliconppmASTM D5185m>20033Fuel%ASTM D5185m>20033Sulfactionks/tmMSTM D5185m>20033Sulfactionks/tmMSTM D5185m>20NONENONESulfactionks/tmMSTM D5185m>20NONENONE	-	hrs	Client Info		442	440	396
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Aluminum ppm ASTM D5185m >12 2 3 4 Lead ppm ASTM D5185m >17 0 <1 0 Copper ppm ASTM D5185m >70 <1 1 13 Tin ppm ASTM D5185m >15 0 <1 2 Vanadium ppm ASTM D5185m >15 0 <1 <1 White Metal scalar *Visual NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE NONE Silicon ppm ASTM D5185m<>25 4 5 5 Potassium ppm ASTM D5185m<>20 0 3 3 Fuel % ASTM D5185m<>20 0 3 3 Glycol WC Method 0.1 0.1 0.1 0.1 Nitration Abs/tmm ASTM D7624<>20 8.3 9.2 8.1 S	Titanium	ppm	ASTM D5185m		2	15	3
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Copper ppm ASTM D5185m >70 <1	Aluminum	ppm	ASTM D5185m	>12	2	3	4
Tin ppm ASTM D5185m >15 0 <1	Lead	ppm	ASTM D5185m	>17	0		0
Vanadium ppm ASTM D5185m 0 <1	Copper	ppm	ASTM D5185m	>70	<1	1	13
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Silicon ppm ASTM D5185m >25 4 5 5 Potassium ppm ASTM D5185m >20 0 3 3 Fuel % ASTM D5185m >20 0 3 3 Fuel % ASTM D5185m >20 0 3 3 Glycol WC Method >0.1 NEG NEG NEG Soto % % *ASTM D7844 0.1 0.1 0.1 Nitration Abs/cm<*ASTM D7624 >20 8.3 9.2 8.1 Sulfation Abs/tm<*ASTM D715 >30 21.3 18.7 22.2 Silt scalar *Visual NONE NONE NONE NONE Debris scalar *Visual NONE NONE NORML NORML NORML Appearance scalar *Visual NORM NORML NORML NORML Emulsified Water scalar *Visual NOR NOR NOR </th <th>White Metal</th> <th>scalar</th> <th>*Visual</th> <th>NONE</th> <th>NONE</th> <th>NONE</th> <th>NONE</th>	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
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Fuel % ASTM D3524 >4.0 <1.0	Silicon	ppm	ASTM D5185m		-		
Water WC Method >0.1 NEG NEG NEG Glycol WC Method NEG NEG NEG Soot % % *ASTM D7844 0.1 0.1 0.1 Nitration Abs/cm *ASTM D7844 0.1 0.1 0.1 Nitration Abs/cm *ASTM D7624 >20 8.3 9.2 8.1 Sulfation Abs/.tmm *ASTM D7615 >30 21.3 18.7 22.2 Silt scalar *Visual NONE NONE NONE NONE Debris scalar *Visual NONE NONE NONE NONE Sand/Dirt scalar *Visual NORM NORML NORML NORML Appearance scalar *Visual NORM NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML Ddor scalar *Visual NORML NORML NORML					-	-	÷
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Appearance scalar *Visual NORML	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Odor scalar *Visual NORML NOR Sodium ppm ASTM D5185m 10 10 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Emulsified Water scalar *Visual >0.1 NEG NEG NEG Sodium ppm ASTM D5185m 2 0 1 Boron ppm ASTM D5185m 233 86 276 Barium ppm ASTM D5185m 0 0 0 Molybdenum ppm ASTM D5185m 84 43 114 Manganese ppm ASTM D5185m 440 696 702 Calcium ppm ASTM D5185m 440 696 702 Calcium ppm ASTM D5185m 760 936 772 803 Phosphorus ppm ASTM D5185m 2770 3453 3183 3455 Sulfur ppm ASTM D5185m 2770 3453 3183 3455 Oxidation Abs/.1mm *ASTM D2896 10.7 7.4 7.5 8.8	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Sodium ppm ASTM D5185m 2 0 1 Boron ppm ASTM D5185m 233 86 276 Barium ppm ASTM D5185m 0 0 0 Molybdenum ppm ASTM D5185m 84 433 114 Manganese ppm ASTM D5185m 4 4 3 Magnesium ppm ASTM D5185m 440 696 702 Calcium ppm ASTM D5185m 1610 1499 1808 Phosphorus ppm ASTM D5185m 760 936 772 803 Zinc ppm ASTM D5185m 830 1057 827 958 Sulfur ppm ASTM D5185m 2770 3453 3183 3455 Oxidation Abs/.1mm *ASTM D7414<>25 16.5 14.4 17.0 Base Number (BN) mg KOHg ASTM D2896 10.7 7.4 7.5 8.8	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
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Magnesium ppm ASTM D5185m 440 696 702 Calcium ppm ASTM D5185m 1610 1499 1808 Phosphorus ppm ASTM D5185m 760 936 772 803 Zinc ppm ASTM D5185m 830 1057 827 958 Sulfur ppm ASTM D5185m 2770 3453 3183 3455 Oxidation Abs/.1mm *ASTM D7414 >25 16.5 14.4 17.0 Base Number (BN) mg KOH/g ASTM D2896 10.7 7.4 7.5 8.8							
Calcium ppm ASTM D5185m 1610 1499 1808 Phosphorus ppm ASTM D5185m 760 936 772 803 Zinc ppm ASTM D5185m 830 1057 827 958 Sulfur ppm ASTM D5185m 2770 3453 3183 3455 Oxidation Abs/.1mm *ASTM D7414 >25 16.5 14.4 17.0 Base Number (BN) mg KOH/g ASTM D2896 10.7 7.4 7.5 8.8	•						
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Oxidation Abs/.1mm *ASTM D7414 >25 16.5 14.4 17.0 Base Number (BN) mg KOH/g ASTM D2896 10.7 7.4 7.5 8.8							
Base Number (BN) mg KOH/g ASTM D2896 10.7 7.4 7.5 8.8							
VISC @ 100°C CST ASTM D445 14.9 11.8 12.0 1 2.0	()						
	Visc @ 100°C	cSt	ASTM D445	14.9	11.8	12.0	12.0

WEAR

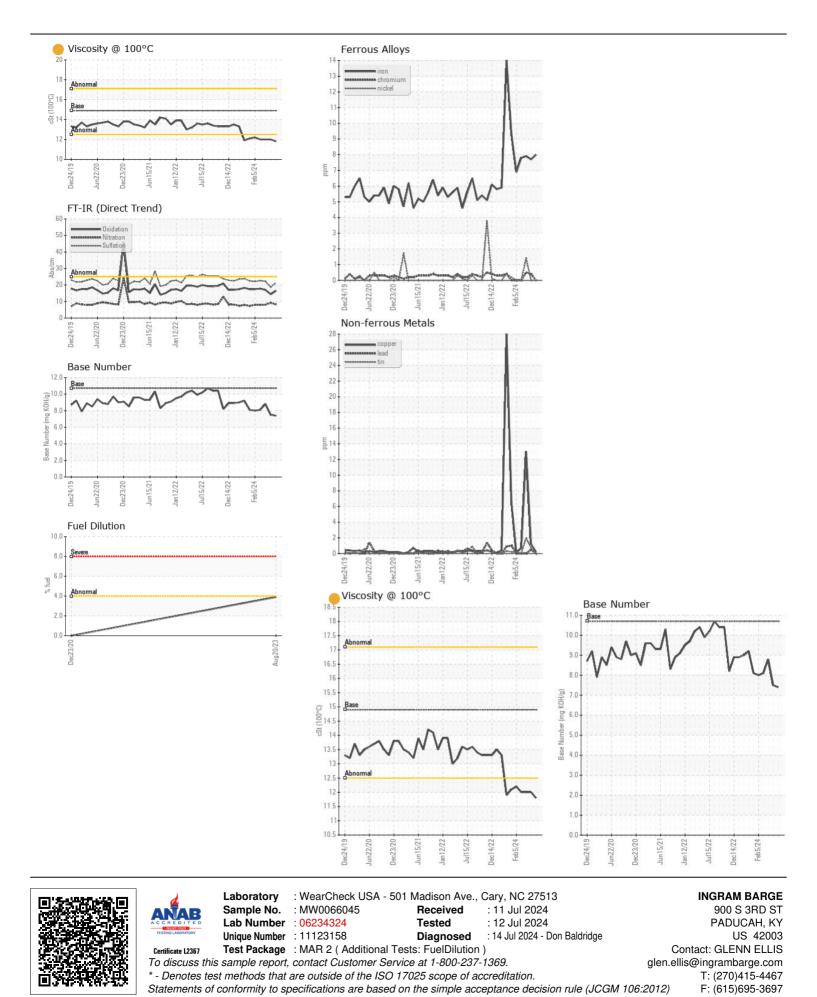
CONTAMINATION

FLUID CONDITION

NORMAL

NORMAL

ATTENTION



Report Id: INGPAD [WUSCAR] 06234324 (Generated: 07/14/2024 12:14:12) Rev: 1

Contact/Location: GLENN ELLIS - INGPAD Page 2 of 2