OIL ANALYSIS REPORT

CHRISTOPHER KSIDAKIS PATRICK/5020465250 TWIN DISC 2451754 - INBOARD - STARBOARD GEARBOX

Sample No: VPA055667

Oil Type: CHEVRON DELO 400 SAE 30

Sample Number VPA055667 Sample Date 28 Jun 2023	SAMPLE INFORM	ATION					
Sample Date 28 Jun 2023 Hode Marine LC - Costal Marine - 430 of Harine LC -							
Machine Hours 113 4300 11th Ave, NW Oil Hours 113 Sample Status Sample Status NORMAL Sample Status Sample Status NORMAL Sample Status Sample Status NORMAL Sample Status Sample Status NORMAL Sample Status Sample Status Sample Status NORMAL Sample Status					Endor Marine LLC - Coastal Marine - 1		
Oil Hours 113 SEATTLE, WA US 98107 Coll changed Changed Contact: WILLOW YANARELLA service@coastalmarineengine.cc COLL CONDITION Contact: WILLOW YANARELLA service@coastalmarineengine.cc CONTAMINATION CONTAMINATION Sodium ppm 14 Potassium ppm 0 WEAR METALS Vincon ppm 13 WEAR METALS ppm 0 Verant Metals Copper ppm 26					4300 11th Ave. NW		
Oil Changed Changed Construction Sample Status NORMAL Contact: WILLOW VANARELL service@coastalmarineengine.cc T: (206)784-3703 F: (206)784-3703 F: (206)784-3823 F: (206)784-8823 CONTAMINATION F: (206)784-8823 Silicon ppm 4 F: (206)784-8823 Sodium ppm 3 F: (206)784-8823 Sodium ppm 3 Sodium ppm 0 VEAR METALS PQ 26 Iton ppm 33 <					SEATTLE, WA		
Sample Status NORMAL Contact WILDOW YARAPELDA service@Corastalmanineengine.co T: (206)784-3703 F: (206)784-3703 F: (206)784-3703 F: (206)784-3823 Visc @ 40°C cSt @96.5 F: (206)784-3703 F: (206)784-3823					US 98107		
Service@coastalmaineegine.co Service@coastalmaineegine.co Silicon gpm Get means Silicon Diagnosis Silicon ppm Get means Diagnosis Silicon ppm Get means Silicon Diagnosis Sodium ppm Get means Colspan="2">Diagnosis Verame transmission Diagnosis WEAR METALS Verame transmission Diagnosis Neample at the next service into indicating any contamination in the oil in a coceptable the time in service. PQ 226 Colspan="2">Colspan="2">Ppm 27 Colspan="2"> Colspan="2" <th <<="" colspan="2" td=""><td></td><td></td><td></td><td></td><td>Contact: WILLOW YANARELLA</td></th>	<td></td> <td></td> <td></td> <td></td> <td>Contact: WILLOW YANARELLA</td>						Contact: WILLOW YANARELLA
OIL CONDITION T: (206)784-3703 F: (200)784-8823 Visc @ 40°C Cst 96.5 CONTAMINATION Ppm 4 Poil	Sample Status		NORMAL	 	 service@coastalmarineengine.cor		
Visc @ 40°C CSt 96.5 Diagnosis Resample at the next service int to monitor. All component wear are normal. There is no indicatil so monitor. All component wear are normal. There is no indicatil so monitor. All component wear are normal. There is no indicatil so monitor. All component wear are normal. There is no indicatil so monitor. All component wear are normal. There is no indicatil so monitor. All component wear are normal. There is no indicatil so monitor. All component wear are normal. There is no indicatil so monitor. All component wear are normal. There is no indicatil any contamination in the oil. The condition of the oil is acceptable the time in service. Picture is no indicatil any contamination in the oil. The condition of the oil is acceptable the time in service. PQ 266	OIL CONDITION				-		
CONTAMINATION Diagnosis Silicon ppm 4 are normal. Resample at the next service int to monitor. All component wear are normal. There is no indicating are normal. There is							
Silicon ppm 4 Reample at the next service int to monitor. All component wear are normal. There is no indicatil any contamination in the oil. Th condition of the oil is acceptable the time in service. PQ 26	Visc @ 40°C	cSt	96.5	 			
Shiloon ppm 4 to monitor.All component wear are normal. There is no indicati any contamination in the oil. It condition of the oil is acceptable the time in service. WEAR METALS are normal. There is no indicati any contamination in the oil. It condition of the oil is acceptable the time in service. VEAR METALS VEAR METALS	CONTAMINATION				Diagnosis		
Sodiumppm3are normal. There is no indicati any contamination in the oil. The condition of the oil is acceptable the time in service.PQ26Ironppm39Copperppm27Copperppm7Leadppm7Aluminumppm4Nickelppm0Nickelppm0Silverppm0Nanajaneseppm0ADDITIVESCalciumppm88Magnesiumppm8856Bariumppm0Bariumppm0Bariumppm0Bariumppm0Bariumppm0Bariumppm0Bariumppm0Bariumppm0Bariumppm0Bariumppm	Silicon	maa	□4	 	 Resample at the next service inte		
Potassium ppm 0 any contamination in the oil. The oil in the oil. The oil is acceptable the time in service. VEAR METALS 226 any contamination in the oil. The oil is acceptable the time in service. PQ 266 any contamination in the oil. The oil is acceptable the time in service. PQ 266 any contamination in the oil. The oil is acceptable the time in service. Copper ppm 39 <				 			
WEAR METALS and a construction of the oil is acceptable the time in service. PQ 26 Iron ppm 39							
WEAR METALS the time in service. PQ 26 Iron ppm 39 Copper ppm 27 Lead ppm 7 Aluminum ppm 4 Molybdenum ppm 0 Nickel ppm 0 Silver ppm 0 Vanadium ppm 0 AbottrVES		PP'''			 5		
ron ppm 39 Copper ppm 27 Lead ppm 7 Lead ppm 7 Aluminum ppm 4 Aluminum ppm 4 Molybdenum ppm 0 Nickel ppm 0 Nickel ppm 0 Silver ppm 0 Manganese ppm 0 ADDITIVES Calcium ppm 2638 Magnesium ppm 886 Phosphorus ppm 0 <t< td=""><td>WEAR METALS</td><td></td><td></td><td></td><td></td></t<>	WEAR METALS						
Copper ppm 27 Lead ppm 7 Tin ppm <1	PQ		26	 			
Lead ppm 7 Tin ppm <1	Iron	ppm	39	 			
Tin ppm <1	Copper	ppm		 			
Aluminum ppm 4 Chromium ppm <1	Lead	ppm	7	 			
Chromium ppm <1	Tin	ppm	 <1	 			
Molybdenum ppm 0 Nickel ppm 0 Titanium ppm <1	Aluminum	ppm	4	 			
Nickel ppm 0 Titanium ppm <1	Chromium	ppm	 <1	 			
Titaniumppm<1Silverppm0Manganeseppm<1	Molybdenum	ppm	0	 			
Silverppm0Manganeseppm<1	Nickel	ppm	0	 			
Manganeseppm<1Vanadiumppm0ADDITIVESCalciumppm2638Magnesiumppm8Zincppm856Phosphorusppm745Bariumppm0	Titanium	ppm	<1	 			
Vanadiumppm0ADDITIVESCalciumppm2638Magnesiumppm8Zincppm856Phosphorusppm745Bariumppm0	Silver		0	 			
ADDITIVESCalciumppm2638Magnesiumppm8Zincppm856Phosphorusppm745Bariumppm0	Manganese	ppm	 <1	 			
Calcium ppm 2638 Magnesium ppm 8 Zinc ppm 856 Phosphorus ppm 745 Barium ppm 0	Vanadium	ppm	0	 			
Magnesium ppm 8 Zinc ppm 856 Phosphorus ppm 745 Barium ppm 0	ADDITIVES						
Magnesium ppm 8 Zinc ppm 856 Phosphorus ppm 745 Barium ppm 0	Calcium	ppm	2638	 	 _		
Zinc ppm B856 Phosphorus ppm T45 Barium ppm 0	Magnesium	ppm	8	 			
Phosphorus ppm 745 Barium ppm 0	-			 			
Barium ppm 0	Phosphorus		745	 			
	•		0	 			
	Boron	ppm	0	 			

Depot: VP794951 Unique No: 10546302 Signed: Sean Felton Report Date: 07 Jul 2023

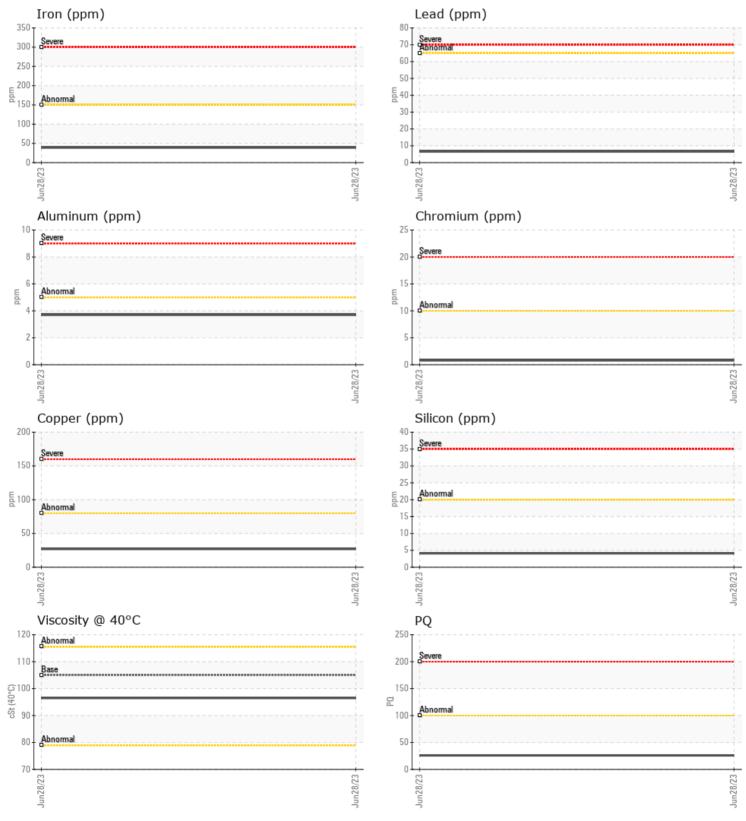
Contact/Location: WILLOW YANARELLA - VP794951

VOLVO PENTA

OIL ANALYSIS REPORT



GRAPHS



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Contact/Location: WILLOW YANARELLA - VP794951