OIL ANALYSIS REPORT

JASON BIELAS SAM VOLVO PENTA 3194012375 - PORT IPS

Sample No: VPA059163

Oil Type: GEAR OIL SAE 75W90

Oil Hours 0 35 Oil Changed Not Changed Sample Status NORMAL NORMAL OIL CONDITION Visc @ 40°C cSt 112 113 CONTAMINATION Sodium ppm 10 8 Sodium ppm 7 5 Potassium ppm 11 0 WEAR METALS Vacad ppm 10 5 Iron ppm 0 0 Copper ppm 10 5 Aluminum ppm 0 0 Aluminum ppm 1 Nickel ppm 0 -					
Sample Date 01 Nov 2023 02 Aug 2022 Machine Hours 892 805 Oil Hours 0 35 Sample Status Not Changd Changed Sample Status Nor RMAL NORMAL OIL CONDITION NORMAL NORMAL Visc @ 40°C cSt 112 113 CONTAMINATION Sodium ppm 10 8 Sodium ppm 7 5 Verasium ppm 150 21 Iron ppm 150 5 Iron ppm 0 0 Iron ppm 0 0 Iron	SAMPLE INFORM	ATION			
Sample Date 01 Nov 2023 02 Aug 2022 Machine Hours 892 805 Oil Hours 0 35 Sample Status Not Changd Changed Sample Status Nor RMAL NORMAL OIL CONDITION NORMAL NORMAL Visc @ 40°C cSt 112 113 CONTAMINATION Sodium ppm 10 8 Sodium ppm 7 5 Verasium ppm 150 21 Iron ppm 150 5 Iron ppm 0 0 Iron ppm 0 0 Iron	Sample Number		VPA059163	VPA042615	
Machine Hours 892 805 Oil Hours 0 35 Oil Changed Not Changd Changed Sample Status NORMAL NORMAL OIL CONDITION Visc @ 40°C cSt 112 113 COTTAMINATION Visc @ 40°C cSt 112 113 Sodium ppm 10 8 Sodium ppm 7 5 WEAR METALS 21 Verage ppm 150 55 Copper ppm 0 0 Lead ppm 0 0 Molybdenum ppm 11 -1 Nickal ppm 0 0 <				02 Aug 2022	
Oil Changed Sample Status Not Changed NORMAL OIL CONDITION Visc @ 40°C cSt 112 113 CONTAMINATION Solicon ppm 10 8 Solium ppm 7 5 Sodium ppm 10 8 WEAR METALS VEAR METALS Iron ppm 0 0 Iron ppm 0 0 Lead ppm 0 0 Aluminum ppm 1 1 Nokel ppm 0 Nokkel	Machine Hours		892		
Sample Status NORMAL NORMAL OIL CONDITION Visc @ 40°C cSt 112 113 CONTAMINATION Sodium ppm 10 8 Sodium ppm 7 5 Potassium ppm <1	Oil Hours		0	35	
Sample Status NORMAL NORMAL OIL CONDITION Visc @ 40°C cSt 112 113 CONTAMINATION Sodium ppm 10 8 Sodium ppm 7 5 Potassium ppm <1	Oil Changed		Not Changd	Changed	
Visc @ 40°C cSt 112 113 CONTAMINATION	Sample Status		-	-	
CONTAMINATION Silicon ppm 10 8 Sodium ppm 7 5 Potassium ppm <1	OIL CONDITION				
Silicon ppm 10 8 Sodium ppm 7 5 Potassium ppm <1	Visc @ 40°C	cSt	112	113	
Silicon ppm 10 8 Sodium ppm 7 5 Potassium ppm <1	CONTAMINATION				
Sodium ppm 7 5 Potassium ppm <1 0 WEAR METALS PQ 15 21 PQ 15 21 Iron ppm 150 55 Copper ppm 0 0 Lead ppm 0 0 Aluminum ppm 0 0 Molybdenum ppm 0 <1 Nickel ppm 0 0 Nikel ppm 0 0 Silver ppm 0 0 Maganese ppm 2 1 Magnesium ppm 2 0 Magnesium<			10	8	
Potassium ppm <1 0 WEAR METALS PQ 15 21 Iron ppm 150 55 Copper ppm 10 5 Lead ppm 0 0 Aluminum ppm 0 0 Aluminum ppm 1 1 Molybdenum ppm 0 <11 Nickel ppm 0 <11 Silver ppm 0 <11 Manganese ppm 0 0 ADDITIVES 2 0 Calcium ppm 51 2 Magnesium ppm 2 0					
WEAR METALS PQ 15 21 Iron ppm 150 555 Copper ppm 10 5 Lead ppm 0 0 Aluminum ppm 0 0 Aluminum ppm 1 1 Aluminum ppm 1 Molybdenum ppm 0 <1			-		
PQ 115 21 Iron ppm 150 55 Copper ppm 10 5 Lead ppm 0 0 Aluminum ppm 0 0 Aluminum ppm 1 1 Molybdenum ppm 0 <11	Totassium	ррш			
Iron ppm 150 55 Copper ppm 10 5 Lead ppm 0 0 Tin ppm 0 0 Aluminum ppm 1 1 Aluminum ppm <1	WEAR METALS				
Copper ppm 10 5 Lead ppm 0 0 Tin ppm 0 0 Aluminum ppm 1 1 Aluminum ppm 1 1 Aluminum ppm 1 1 Chromium ppm <1 Molybdenum ppm 0 <1 Nickel ppm 1 <1 Nickel ppm 0 0 Manganese ppm 0 0 Vanadium ppm 51 2 Magnesium ppm 2 0 Magnesium ppm 36 7	PQ		15	21	
Lead ppm 0 0 Tin ppm 0 0 Aluminum ppm 1 1 Aluminum ppm <1	Iron	ppm	150	55	
Tin ppm 0 0 Aluminum ppm 1 1 Aluminum ppm 1 1 Aluminum ppm <1 1 Molybdenum ppm 0 <1 Molybdenum ppm 0 <1 Nickel ppm 0 0 Nickel ppm 0 <1 Silver ppm 0 <1 Manganese ppm 2 1 Vanadium ppm 51 2 Magnesium ppm 2 0 Magnesium ppm 36 7 Phosphorus ppm 0 0 <	Copper	ppm	10	5	
Aluminum ppm 1 1 Aluminum ppm 1 1 Chromium ppm <1	Lead	ppm	0	0	
Chromium ppm <1	Tin	ppm	0	0	
Molybdenum ppm 0 <1 Nickel ppm 1 <1	Aluminum	ppm	1	1	
Nickel ppm 1 <1 Titanium ppm 0 0 Silver ppm 0 <1	Chromium	ppm	□ <1	 <1	
Titanium ppm 0 0 Silver ppm 0 <1	Molybdenum	ppm	0	 <1	
Silver ppm 0 <1	Nickel	ppm	1	 <1	
Manganese ppm 2 1 Vanadium ppm 0 0 ADDITIVES Calcium ppm 51 2 Magnesium ppm 21 0 Zinc ppm 36 7 Phosphorus ppm 1321 1400 Barium ppm 0 0	Titanium	ppm		0	
Manganese ppm 2 1 Vanadium ppm 0 0 ADDITIVES Calcium ppm 51 2 Magnesium ppm 2 0 Zinc ppm 36 7 Phosphorus ppm 1321 1400 Barium ppm 0 0	Silver	ppm	0	<1	
ADDITIVES Calcium ppm 51 2 Magnesium ppm 2 0 Zinc ppm 36 7 Phosphorus ppm 1321 1400 Barium ppm 0 0	Manganese		2	1	
Calcium ppm 51 2 Magnesium ppm 2 0 Zinc ppm 36 7 Phosphorus ppm 1321 1400 Barium ppm 0 0	Vanadium	ppm	0	0	
Magnesium ppm 2 0 Zinc ppm 36 7 Phosphorus ppm 1321 1400 Barium ppm 0	ADDITIVES				
Zinc ppm 36 7 Phosphorus ppm 1321 1400 Barium ppm 0 0	Calcium	ppm	51	2	
Zinc ppm 36 7 Phosphorus ppm 1321 1400 Barium ppm 0 0	Magnesium	ppm	2	0	
Phosphorus ppm 1321 1400 Barium ppm 0 0	Zinc			7	
Barium ppm 0 0	Phosphorus		1321	1400	
	Barium		0		
	Boron	ppm	290	420	

VOLVO PENTA

Endor Marine LLC - Coastal Marine - 152124 4300 11th Ave. NW SEATTLE, WA US 98107 Contact: WILLOW YANARELLA service@coastalmarineengine.com T: (206)784-3703 F: (206)784-8823

Diagnosis

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

 Depot:
 VP794951

 Unique No:
 10727719

 Signed:
 Don Baldridge

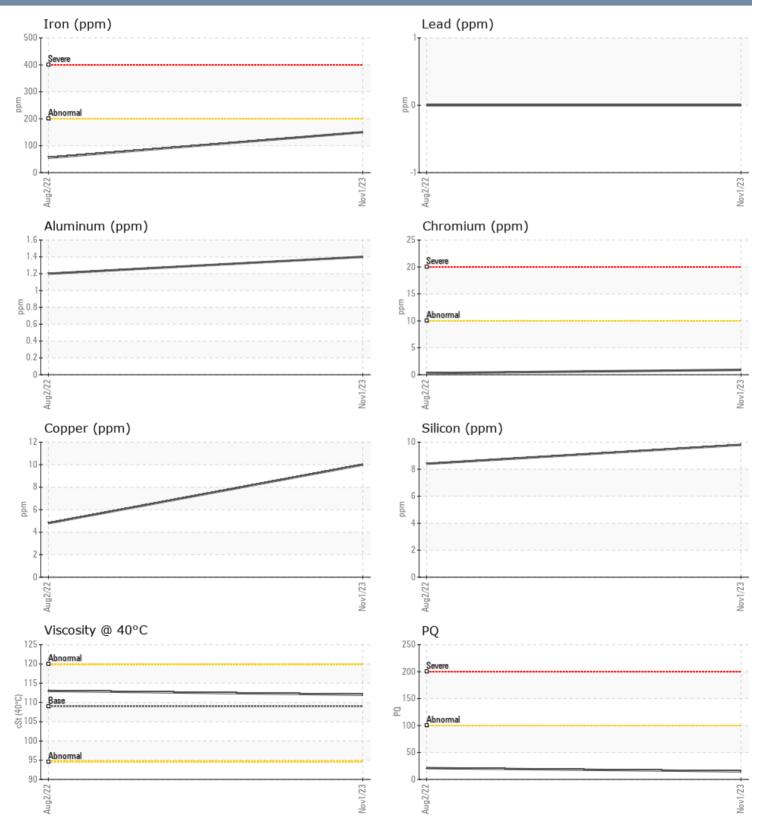
 Report Date:
 07 Nov 2023

Contact/Location: WILLOW YANARELLA - VP794951

OIL ANALYSIS REPORT



GRAPHS



Report Id: VP794951 [WUSCAR] 05999359 (Generated: 11/15/2023 23:20:18) Rev: 1

Contact/Location: WILLOW YANARELLA - VP794951