



BILL SHIELDS SAM VOLVO PENTA 3200001407 - PORT IPS

Sample No: VPA053221

Oil Type: GEAR OIL SAE 75W90

Sample Number VPA053221 VPA035269 Sample Date 02 Apr 2024 04 Oct 2021 Machine Hours 345 239 Oil Hours 106 0 Oil Changed Not Changd Not Changd Not Changed Sample Status NORMAL NORMAL Oil CONDITION Visc @ 40°C CSt	SAMPLE INFORM	ATION			
Sample Date 02 Apr 2024 04 Oct 2021 Machine Hours 345 239 Oil Hours 106 0 Oil Changed Not Changd NorMAL DIL CONDITION Visc @ 40°C CSt 112 112 CONTAMINATION Water % NEG NEG Silicon ppm <1		ATION	VP4052004	VPA 025260	
Machine Hours 345 239 <					
Oil Hours 106 0 Oil Changed Not Changd Not Changd Sample Status NORMAL NORMAL OIL CONDITION Visc @ 40°C CSt 112 112 CONTAMINATION Water % NEG NEG Sodium ppm <1	•				
Not Changed Not Changed Normal					
NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL N					
OIL CONDITION CONTAMINATION Water % NEG NEG <th></th> <th></th> <th>_</th> <th></th> <th></th>			_		
Visc @ 40°C CSt 112 11			NORWAL	NORIVIAL	
CONTAMINATION Water % NEG NEG Silicon ppm <-1 1 1 Sodium ppm	OIL CONDITION				
Water % NEG NEG Silicon ppm <1 1 Sodium ppm 2 2 Potassium ppm 0 1 WEAR METALS WEAR METALS WEAR METALS PQ 15 21 Iron ppm 11 22 Iron ppm 0 0 Lead ppm 0 0 Lead ppm 0 0 Aluminum ppm <1 <1 Aluminum ppm 0 Molybdenum ppm 0 Nickel ppm 0	Visc @ 40°C	cSt	112	112	
Silicon ppm <1	CONTAMINATION				
Silicon ppm <1	Water	%	NEG	NEG	
Sodium	Silicon	ppm	<1	1	
Potassium ppm 0 1 WEAR METALS PQ 15 21 Iron ppm 11 222 Copper ppm 3 2 Lead ppm 0 0 Tin ppm <1	Sodium		2	2	
WEAR METALS PQ 115 21 Iron ppm 11 22 Copper ppm 3 2 Lead ppm 0 0 Tin ppm <1	Potassium		■ 0	1	
Iron	WEAR METALS				
Copper ppm 3 2 Lead ppm 0 0 Tin ppm <1	PQ		15	2 1	
Lead ppm 0 0 Tin ppm <1	Iron	ppm	11	2 2	
Tin ppm <1 0 Aluminum ppm <1 <1 <-1	Copper	ppm	3	2	
Aluminum ppm <1	Lead	ppm	0	0	
Chromium ppm 0 Molybdenum ppm 0 Nickel ppm 0 <1	Tin	ppm	<1	0	
Molybdenum ppm 0 Nickel ppm 0 -	Aluminum	ppm	<1	<1	
Nickel ppm 0 <td>Chromium</td> <td>ppm</td> <td>0</td> <td>-<1</td> <td> </td>	Chromium	ppm	0	- <1	
Titanium ppm 0 <1	Molybdenum	ppm	■ 0	0	
Silver ppm 0 0 Manganese ppm <1 <1 Vanadium ppm 0 0 ADDITIVES Calcium ppm 0 0 Magnesium ppm 0 18 Zinc ppm 0 0 Phosphorus ppm 1450 1463 Barium ppm 0 0	Nickel	ppm	0	- <1	
Manganese ppm <1 <1 Vanadium ppm 0 0 ADDITIVES Calcium ppm 0 0 Magnesium ppm 0 18 Zinc ppm 0 0 Phosphorus ppm 1450 1463 Barium ppm 0 0	Titanium	ppm	0	<1	
Vanadium ppm 0 0 ADDITIVES Calcium ppm 0 0 Magnesium ppm 0 18 Zinc ppm 0 0 Phosphorus ppm 1450 1463 Barium ppm 0 0	Silver	ppm	0	0	
ADDITIVES Calcium ppm 0 0 Magnesium ppm 0 18 Zinc ppm 0 0 Phosphorus ppm 1450 1463 Barium ppm 0 0	Manganese	ppm	■<1	- <1	
Calcium ppm 0 Magnesium ppm 0 18 Zinc ppm 0 0 Phosphorus ppm 1450 1463 Barium ppm 0 0	Vanadium	ppm	0	0	
Magnesium ppm 0 18 Zinc ppm 0 0 Phosphorus ppm 1450 1463 Barium ppm 0 0	ADDITIVES				
Magnesium ppm 0 18 Zinc ppm 0 0 Phosphorus ppm 1450 1463 Barium ppm 0 0	Calcium	ppm	0		
Zinc ppm 0 0 Phosphorus ppm 1450 1463 Barium ppm 0 0	Magnesium		■ 0	1 8	
Barium ppm □0 □0	Zinc		0	0	
	Phosphorus	ppm	1450	1 463	
Boron ppm ■322 ■304	Barium	ppm	0	0	
	Boron	ppm	■322	■304	

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

Diagnosis

F: (206)784-8823

No corrective action is recommended at this time. 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:
 10957170

 Signed:
 Sean Felton

 Report Date:
 05 Apr 2024

OIL ANALYSIS REPORT



