



NADINE URCIUOLI BEN UYEMURA 2300474 VOLVO PENTA 3950009255 - STERNDRIVE - PORT GEARBOX

Sample No: VPA049690

Oil Type: VOLVO PENTA GL-5 SAE 75W90

Sample Number Sample Number Sample Number Sample Date 15 Sep 2023	CAMPLE INCOM	IATION				
Sample Date 15 Sep 2023	SAMPLE INFURM	IATIUN				
Machine Hours 37 <t< th=""><th>Sample Number</th><th></th><th>VPA049690</th><th> </th><th></th></t<>	Sample Number		VPA049690	 		
Oil Hours 37	Sample Date		15 Sep 2023	 		
Oil Changed Sample Status Changed NORMAL	Machine Hours		37	 		
Sample Status	Oil Hours		37	 		
OIL CONDITION CONTAMINATION Silicon ppm 9 <	Oil Changed		Changed	 		
Visc @ 40°C cSt 104 <th co<="" th=""><th>Sample Status</th><th></th><th>NORMAL</th><th> </th><th></th></th>	<th>Sample Status</th> <th></th> <th>NORMAL</th> <th> </th> <th></th>	Sample Status		NORMAL	 	
CONTAMINATION Silicon ppm 9	OIL CONDITION					
Silicon ppm ppm	Visc @ 40°C	cSt	■104	 		
Sodium ppm 2 <td>CONTAMINATION</td> <td>N</td> <td></td> <td></td> <td></td>	CONTAMINATION	N				
Sodium ppm 2 <td>Silicon</td> <td>ppm</td> <td>9</td> <td> </td> <td></td>	Silicon	ppm	9	 		
Potassium ppm 8 WEAR METALS PQ 21 Iron ppm 21 Copper ppm 4 Lead ppm <1	Sodium			 		
PQ	Potassium		_	 		
PQ	WEAR METALS					
Iron			■21	 		
Copper ppm 4 Lead ppm <1		nnm				
Lead ppm -1 Tin ppm -1 Aluminum ppm 1 Chromium ppm -1 Molybdenum ppm 0 Nickel ppm 0 Titanium ppm 0 Silver ppm 0 Manganese ppm 5 Vanadium ppm 0 ADDITIVES Calcium ppm 66 Magnesium ppm 935 Zinc ppm 12 Phosphorus ppm 1591				 		
Tin ppm			_	 		
Aluminum ppm 1 <t< td=""><td></td><td></td><td>_</td><td> </td><td></td></t<>			_	 		
Chromium ppm Image: square sq	Aluminum		_ 1	 		
Molybdenum ppm 0 Nickel ppm <1	Chromium		 <1	 		
Nickel ppm <	Molybdenum			 		
Titanium ppm 0 Silver ppm 0 Manganese ppm 5 Vanadium ppm 0 ADDITIVES Calcium ppm 66 Magnesium ppm 935 Zinc ppm 12 Phosphorus ppm 1591	•			 		
Silver ppm 0 Manganese ppm 5 Vanadium ppm 0 ADDITIVES Calcium ppm 66 Magnesium ppm 935 Zinc ppm 12 Phosphorus ppm 1591	Titanium		0	 		
Vanadium ppm 0 ADDITIVES Calcium ppm 66 Magnesium ppm 935 Zinc ppm 12 Phosphorus ppm 1591	Silver		0	 		
Vanadium ppm 0 ADDITIVES Calcium ppm 66 Magnesium ppm 935 Zinc ppm 12 Phosphorus ppm 1591	Manganese	ppm	■ 5	 		
Calcium ppm 66 Magnesium ppm 935 Zinc ppm 12 Phosphorus ppm 1591	Vanadium	ppm	0	 		
Magnesium ppm 935 Zinc ppm ■12 Phosphorus ppm ■1591	ADDITIVES					
Magnesium ppm 935 Zinc ppm ■12 Phosphorus ppm ■1591	Calcium	ppm	66	 		
Zinc ppm ■12 Phosphorus ppm ■1591	Magnesium			 		
Phosphorus ppm 1591	_		12	 		
	Phosphorus		 1591	 		
	Barium	ppm	2	 		
Boron ppm 606	Boron			 		

Helmuts Marine Service

619 Canal Street SAN RAFAEL, CA US 94901-3545 Contact: NADINE URCIUOLI SERVICE@HELMUTSMARINE.COM

T: x: F: x:

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:VP152741Unique No:10662018Signed:Don BaldridgeReport Date:27 Sep 2023

OIL ANALYSIS REPORT



