OIL ANALYSIS REPORT

TIM HALAHAN VOLVO PENTA 3940018215 - PORT IPS

Sample No: VPA060057

Oil Type: VOLVO PENTA GL-5 SAE 75W90

SAMPLE INFORMATION Sample Number VPA060057 Sample Date 06 Oct 2023 Machine Hours 512 Oil Changed Changed Oil CONDITION Visc @ 40°C cSt 98.6 CONTAMINATION Visc @ 40°C cSt 98.6 CONTAMINATION Vater % NEG Solium ppm 127 Potassium ppm 127 Potassium ppm 7 Iron ppm 7				 	
Sample Date 06 Oct 2023 Machine Hours 512 Oil Hours 45 Sample Status ATTENTION OIL CONDITION Visc @ 40°C cSt 98.6 CONTAMINATION Water % NEG Sodium ppm 127 Sodium ppm 11 Vetar Silicon ppm 127 Sodium ppm 127 Vetar Silicon ppm 127 Iron ppm 127 Iron	SAMPLE INFORM	ATION			
Sample Date 06 Oct 2023 Machine Hours 512 Oil Hours 45 Sample Status ATTENTION OIL CONDITION Visc @ 40°C cSt 98.6 CONTAMINATION Water % NEG Sodium ppm 127 Sodium ppm 11 Vetar Silicon ppm 127 Sodium ppm 127 Vetar Silicon ppm 127 Iron ppm 127 Iron	Sample Number		VPA060057	 	
Oil Hours 45 Oil Changed Changed Sample Status ATTENTION OIL CONDITION Visc @ 40°C cSt 98.6 CONTAMINATION Water % NEG Sodium ppm 5 Sodium ppm 127 Sodium ppm 128 Veassium ppm 121 Veassium ppm 21 Copper ppm 7 Icad ppm 1 Molybdenum ppm 21 Nickel ppm	-			 	
Oil Changed Changed Sample Status ATTENTION OIL CONDITION Visc @ 40°C cSt 98.6 CONTAMINATION Water % NEG Solition ppm 127 Sodium ppm 12 Sodium ppm 1 Potassium ppm 1 Iron ppm 7 Copper ppm 7 Iron ppm 2 Aluminum ppm 2 Molybelnum ppm 1 Ni			512	 	
Oil Changed Changed Sample Status ATTENTION OIL CONDITION Visc @ 40°C cSt 98.6 CONTAMINATION Water % NEG Solition ppm 127 Sodium ppm 12 Sodium ppm 1 Potassium ppm 1 Iron ppm 7 Copper ppm 7 Iron ppm 2 Aluminum ppm 2 Molybelnum ppm 1 Ni	Oil Hours		45	 	
Sample Status ATTENTION OLL CONDITION Visc @ 40°C cSt 98.6 CONTAMINATION Water % NEG Solium ppm 5 Potassium ppm 1 WEAR METALS PQ 13 Iron ppm 21 Iron ppm 1 Iron ppm 1 Iron ppm 1 Iron ppm 1 Aluminum <td< td=""><td></td><td></td><td>Changed</td><td> </td><td></td></td<>			Changed	 	
Visc @ 40°C cSt B98.6 CONTAMINATION Visc @ A0°C % NEG Silicon ppm 127 Sodium ppm 5 Sodium ppm 5 Veassium ppm 1 Wear METALS PQ 13 Iron ppm 211 Copper ppm 7 Lead ppm 0 Aluminum ppm 2 Molybdenum ppm 1 Nickel ppm 0 <td>-</td> <td></td> <td>-</td> <td> </td> <td></td>	-		-	 	
CONTAMINATION Water % NEG Silicon ppm 127 Sodium ppm 5 Potassium ppm 1 WEAR METALS PQ 13 Iron ppm 21 Copper ppm 7 Lead ppm 0 Aluminum ppm 2 Molybdenum ppm 1 Nickel ppm 0 Molybdenum ppm 0 Nickel ppm	OIL CONDITION				
Water % NEG Silicon ppm 127 Sodium ppm 5 Potassium ppm 1 WEAR METALS PQ 13 Iron ppm 21 Copper ppm 7 Lead ppm 0 Aluminum ppm 2 Aluminum ppm 2 Molybdenum ppm 1 Nickel ppm 0 Silver ppm 0 <	Visc @ 40°C	cSt	98.6	 	
Silicon ppm 127 Sodium ppm 5 Potassium ppm 1 Potassium ppm 1 WEAR METALS PQ 13 Iron ppm 21 Copper ppm 7 Lead ppm 0 Aluminum ppm 2 Molybdenum ppm 1 Nickel ppm 1 Nickel ppm 0 Magnaese ppm 0 Magnesium ppm 5 Posphorus <	CONTAMINATION				
Silicon ppm 127 Sodium ppm 5 Potassium ppm 1 Potassium ppm 1 WEAR METALS PQ 13 Iron ppm 21 Copper ppm 7 Lead ppm 0 Aluminum ppm 2 Molybdenum ppm 1 Nickel ppm 1 Nickel ppm 0 Magnaese ppm 0 Magnesium ppm 5 Posphorus <	Water	%	NEG	 	
Sodium ppm 5 Potassium ppm 1 WEAR METALS PQ 13 Iron ppm 21 Copper ppm 7 Lead ppm 0 Aluminum ppm 2 Aluminum ppm 1 Molybdenum ppm 1 Nickel ppm 0 Silver ppm 0 Magaanese ppm 0 Magnesium ppm 5 Magnesium ppm 5 Phosphorus				 	
Potassium ppm 1 WEAR METALS PQ 13 Iron ppm 21 Copper ppm 7 Lead ppm 0 Aluminum ppm 21 Aluminum ppm 1 Molybdenum ppm <1 Molybdenum ppm <1 Nickel ppm 0 Silver ppm 0 Manganese ppm 0 Magnesium ppm 5	Sodium			 	
PQ 113 Iron ppm 21 Copper ppm 7 Lead ppm 0 Tin ppm 1 Aluminum ppm 2 Molybdenum ppm 1 Nickel ppm 1 Nickel ppm 0 Silver ppm 0 Manganese ppm 0 Vanadium ppm 36 Magnesium ppm 5 Magnesium ppm 1365 Phosphorus ppm 0 Manaine	Potassium			 	
Iron ppm 21 Copper ppm 7 Lead ppm 0 Aluminum ppm <1	WEAR METALS				
Copper ppm 7 Lead ppm 0 Tin ppm <1	PQ		13	 	
Lead ppm 0 Tin ppm <1	Iron	ppm	21	 	
Tin ppm <1	Copper	ppm	7	 	
Aluminum ppm 2 Chromium ppm <1	Lead	ppm	0	 	
Chromium ppm <1	Tin	ppm	<1	 	
Molybdenum ppm 1 Nickel ppm <1	Aluminum	ppm	2	 	
Nickel ppm <1 Titanium ppm <1	Chromium	ppm	 <1	 	
Titanium ppm <1	Molybdenum	ppm	∎1	 	
Silver ppm 0 Manganese ppm <1 Vanadium ppm 0 ADDITIVES Calcium ppm 36 Magnesium ppm 5 Zinc ppm 15 Phosphorus ppm 0 Barium ppm 0	Nickel	ppm	 <1	 	
Manganese ppm <1 Vanadium ppm 0 ADDITIVES Calcium ppm 36 Magnesium ppm 5 Zinc ppm 115 Phosphorus ppm 1365 Barium ppm 0	Titanium	ppm	<1	 	
Vanadium ppm 0 ADDITIVES Calcium ppm 36 Magnesium ppm 5 Zinc ppm 15 Phosphorus ppm 1365 Barium ppm 0	Silver	ppm	0	 	
ADDITIVESCalciumppm36Magnesiumppm5Zincppm15Phosphorusppm1365Bariumppm0	Manganese	ppm		 	
Calcium ppm 36 Magnesium ppm 5 Zinc ppm 15 Phosphorus ppm 1365 Barium ppm 0	Vanadium	ppm	0	 	
Magnesium ppm 5 Zinc ppm 15 Phosphorus ppm 1365 Barium ppm 0	ADDITIVES				
Zinc ppm 15 Phosphorus ppm 1365 Barium ppm 0	Calcium	ppm	36	 	
Phosphorus ppm 1365 Barium ppm 0	Magnesium	ppm	5	 	
Barium ppm 0	Zinc	ppm	15	 	
	Phosphorus	ppm	1365	 	
Boron ppm 346	Barium	ppm	0	 	
	Boron	ppm	346	 	



OLVO ENTA

Windsor Rd. 1FIELD, CT 02-1404 : Brian McDonnell nnell@comcast.net

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filter change at the time of ng has been noted. Resample next service interval to or.All component wear rates mal. Moderate concentration ble dirt/debris present in the mental level of silicon (Si) normal indicating ingress of aterial. The condition of the oil ptable for the time in service.

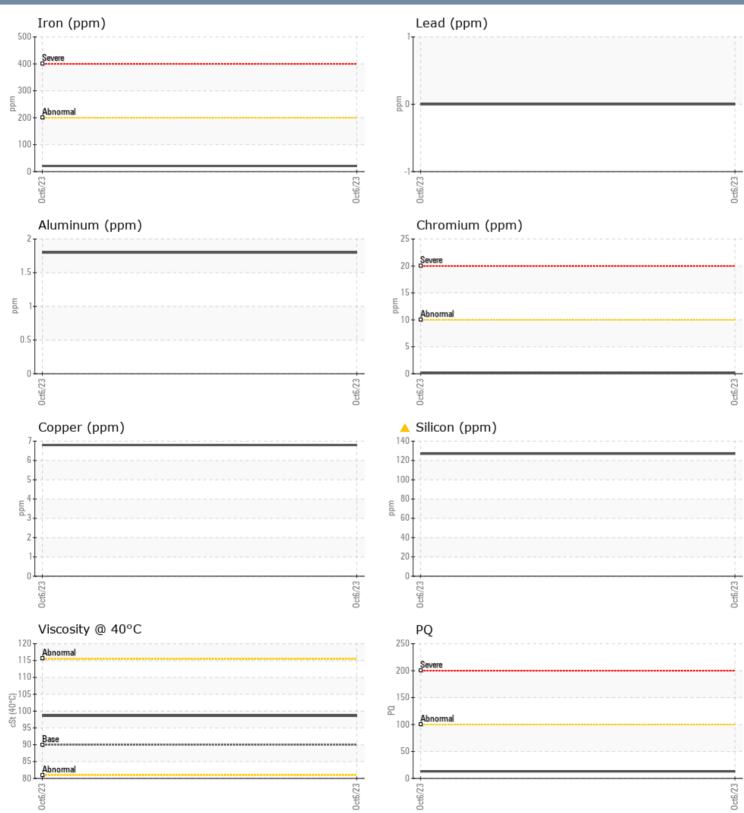
Depot: VP153357 Unique No: 10753763 Signed: Don Baldridge Report Date: 24 Nov 2023

Contact/Location: Brian McDonnell - VP153357

OIL ANALYSIS REPORT







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