OIL ANALYSIS REPORT

3940021688 - PORT IPS

Sample No:	VPA056493
Oil Type:	GEAR OIL SAE 75W90

SAMPLE INFORMATION Sample Number VPA056493 Sample Date 09 Apr 2024 Machine Hours 0 Oil Hours 0 Oil Changed N/A Sample Status SEVERE OIL CONDITION Visc @ 40°C cSt 110 CONTAMINATION Vater % NEG Solium ppm 22 Potassium ppm 22 Potassium ppm 1 Copper ppm 1 Iron ppm 1 Autom ppm 1 Kobasition						
Sample Date 09 Apr 2024 Machine Hours 0 Oil Hours 0 Sample Status SEVERE Somple Status SEVERE OIL CONDITION Visc @ 40°C CSt 110 Vater % NEG Solium ppm 226 VeAR METALS Veasium ppm 410 Iron ppm 54 Iron ppm 1 Iron ppm 1	SAMPLE INFORM	ATION				
Sample Date 09 Apr 2024 Machine Hours 0 Oil Hours 0 Sample Status SEVERE Somple Status SEVERE OIL CONDITION Visc @ 40°C CSt 110 Vater % NEG Solium ppm 226 VeAR METALS Veasium ppm 410 Iron ppm 54 Iron ppm 1 Iron ppm 1	Sample Number		VPA056493	 		
Machine Hours 0 Oil Hours 0 Oil Condred N/A Sample Status SEVERE OIL CONDITION COTAMINATION Solicon ppm 19 Solicon ppm 126 Solium ppm 26 VEAR METALS Iron ppm 410 Iron ppm 1 Iron ppm 1 Iron ppm </td <td></td> <td></td> <td>09 Apr 2024</td> <td> </td> <td></td>			09 Apr 2024	 		
N/A Sample Status SEVERE OLL CONDITION Visc @ 40°C cSt 110 CONTAMINATION Water % NEG Solium ppm 19 Solium ppm 26 Potassium ppm 22 PQ 29 PQ 29 Copper ppm 54 Aluminum ppm 41 Aluminum ppm 41 Nickel ppm <				 		
Sample Status SEVERE OLL CONDITION Visc @ 40°C cSt 110 CONTAMINATION Water % NEG Solicon ppm 19 Sodium ppm 26 Potassium ppm 22 Iron ppm 410 Iron ppm 1 Iron ppm 1 Iron ppm 1 Iron ppm 1	Oil Hours		0	 		
Sample Status SEVERE OLL CONDITION Visc @ 40°C cSt 110 CONTAMINATION Water % NEG Solicon ppm 19 Sodium ppm 26 Potassium ppm 22 Iron ppm 410 Iron ppm 1 Iron ppm 1 Iron ppm 1 Iron ppm 1	Oil Changed		N/A	 		
Visc @ 40°C cSt 110 CONTAMINATION Visc @ 40°C % NEG Solicon ppm 19 Solicon ppm 26 Potassium ppm 26 WEAR METALS PQ 29 PQ 29 Iron ppm 410 Copper ppm 54 Lead ppm 4 Aluminum ppm 4 Kickel ppm 2 Molybdenum ppm 2			SEVERE	 		
Visc @ 40°C cSt 110 CONTAMINATION Visc @ 40°C % NEG Solicon ppm 19 Solicon ppm 26 Potassium ppm 26 WEAR METALS PQ 29 PQ 29 Iron ppm 410 Copper ppm 54 Lead ppm 4 Aluminum ppm 4 Kickel ppm 2 Molybdenum ppm 2	OIL CONDITION					
Water % NEG Silicon ppm 19 Sodium ppm 26 Potassium ppm 22 Potassium ppm 22 WEAR METALS PQ 29 Iron ppm 410 Copper ppm 1 Lead ppm 1 Aluminum ppm 41 Molybdenum ppm 1 Nickel ppm 4 Nickel ppm 1 Silver ppm 0 Magnesee		cSt	110	 		
Silicon ppm 19 Sodium ppm 26 Potassium ppm 2 WEAR METALS PQ 29 Iron ppm 410 Lead ppm 54 Lead ppm 41 Aluminum ppm 4 Nickel ppm 3 Molybdenum ppm 2 Nickel ppm 0 Silver ppm 0 Magnaese ppm 7 Magnesium ppm 16	CONTAMINATION	I				
Silicon ppm 19 Sodium ppm 26 Potassium ppm 2 WEAR METALS PQ 29 Iron ppm 410 Copper ppm 54 Lead ppm 1 Aluminum ppm 4 Molybdenum ppm 2 Nickel ppm 2 Molybdenum ppm 1 Silver ppm 0 Maganese ppm 7 Magnesium ppm 16	Water	%	NEG	 		
Sodium ppm 26 Potassium ppm 2 WEAR METALS PQ 29 Iron ppm 410 Copper ppm 54 Lead ppm 1 Aluminum ppm 4 Aluminum ppm 3 Molybdenum ppm 4 Nickel ppm 4 Nikel ppm 0 Silver ppm 0 Magaaese ppm 7 Magnesium ppm 16 Magnesium <t< td=""><td></td><td></td><td>19</td><td> </td><td></td></t<>			19	 		
Potassium ppm 2 WEAR METALS PQ 29 Iron ppm 410 Copper ppm 54 Lead ppm 1 Aluminum ppm 41 Aluminum ppm 41 Aluminum ppm 4 Molybdenum ppm 2 Molybdenum ppm 4 Nickel ppm 0 Silver ppm 0 Vanadium ppm< <td>16 Magnesium ppm 14 </td> <td>Sodium</td> <td></td> <td>26</td> <td> </td> <td></td>	16 Magnesium ppm 14	Sodium		26	 	
PQ 29 Iron ppm 410 Copper ppm 54 Lead ppm 1 Aluminum ppm 4 Chromium ppm 3 Molybdenum ppm 2 Nickel ppm 4 Nickel ppm 0 Silver ppm 0 Manganese ppm 1 Vanadium ppm 16 Magnesium ppm 14 Magnesium ppm 1360 Barium ppm 1	Potassium		2	 		
Iron ppm 410 Copper ppm 54 Lead ppm 1 Tin ppm <1	WEAR METALS					
Copper ppm 54 Lead ppm 1 Tin ppm <1	PQ		29	 		
Lead ppm 1 Tin ppm <1	Iron	ppm	410	 		
Tin ppm <1	Copper	ppm	54	 		
Aluminum ppm 4 Chromium ppm 3 Molybdenum ppm 2 Nickel ppm 4 Nickel ppm 4 Titanium ppm <1	<1	Lead	ppm	1	 	
Chromium ppm 3 Molybdenum ppm 2 Nickel ppm 4 Titanium ppm <1	<1	Tin	ppm	<1	 	
Molybdenum ppm 2 Nickel ppm 4 Titanium ppm <1	Aluminum	ppm	4	 		
Nickel ppm 4 Titanium ppm <1	Chromium	ppm		 		
Titanium ppm <1 Silver ppm 0 Manganese ppm 7 Vanadium ppm <1	Molybdenum	ppm		 		
Silver ppm 0 Manganese ppm 7 Vanadium ppm <1	Nickel	ppm	4	 		
Manganese ppm 7 Vanadium ppm <1	Titanium	ppm		 		
Vanadium ppm <1 ADDITIVES Calcium ppm 16 Magnesium ppm 14 Zinc ppm 54 Phosphorus ppm 1360 Barium ppm 1	Silver	ppm	0	 		
ADDITIVES Calcium ppm 16 Magnesium ppm 14 Zinc ppm 54 Phosphorus ppm 1360 Barium ppm 1	Manganese	ppm	7	 		
Calcium ppm 16 Magnesium ppm 14 Zinc ppm 54 Phosphorus ppm 1360 Barium ppm 1	Vanadium	ppm	<1	 		
Magnesium ppm 14 Zinc ppm 54 Phosphorus ppm 1360 Barium ppm 1	ADDITIVES					
Magnesium ppm 14 Zinc ppm 54 Phosphorus ppm 1360 Barium ppm 1	Calcium	ppm	1 6	 		
Zinc ppm 54 Phosphorus ppm 1360 Barium ppm 1			1 4	 		
Phosphorus ppm 1360 Barium ppm 1			54	 		
Barium ppm 1	Phosphorus			 		
	Boron	ppm		 		

ADVANCED DIESEL 1029 INDUSTRIAL BLVD, UNIT 2 NAPLES, FL US 34104 Contact: KEITH SPICER keith_advanceddiesel@yahoo.com T: (239)580-8731

Diagnosis

We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.Gear wear is indicated. There is no indication of any contamination in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

 Depot:
 VPADVNAP

 Unique No:
 10979088

 Signed:
 Jonathan Hester

 Report Date:
 18 Apr 2024

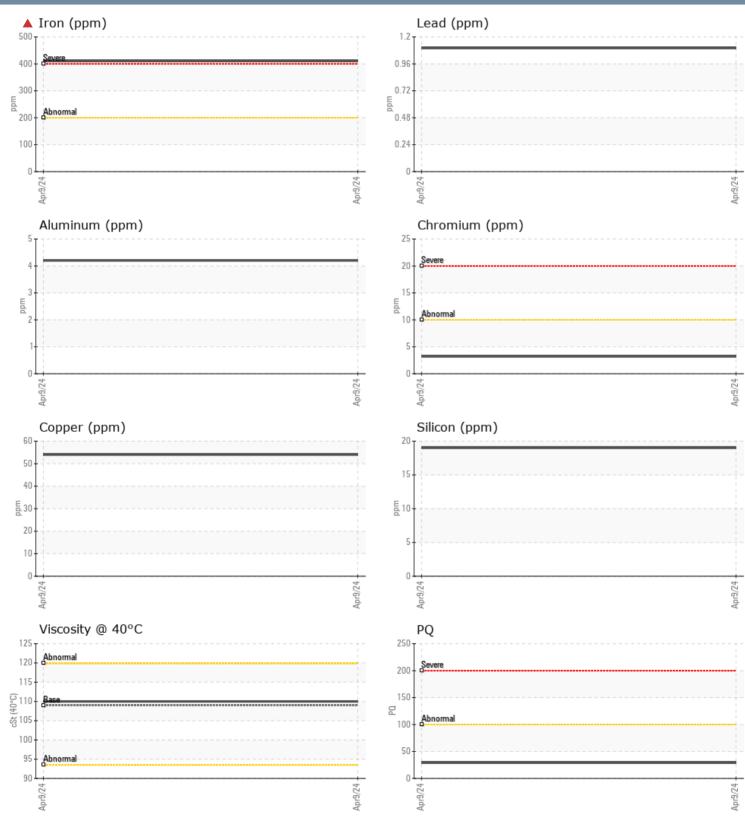
 Contact/Location: KEITH SPICER - VPADVNAP



OIL ANALYSIS REPORT







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Contact/Location: KEITH SPICER - VPADVNAP