



## JOSEPH FUSCO JF VOLVO PENTA 3940017916 - PORT IPS

Sample No: VPA012851

**Oil Type:** GEAR OIL SAE 75W90

Sample Number         VPA012851         VPA012766             Sample Date         30 Mar 2024         17 Apr 2023             Machine Hours         609         625             Oil Hours         109         120             Oil Changed         Not Changed             Sample Status         ABNORMAL         NORMAL             OIL CONDITION           Visc @ 40°C         CSt         105         107             CONTAMINATION           Water         %         NEG         NEG             CONTAMINATION           Water         %         NEG         NEG             CONTAMINATION           Water         %         NEG         NEG             Water         %         NEG         NEG         NEG             Sodium         ppm         17	SAMPLE INFORM	ATION			
Sample Date         30 Mar 2024         17 Apr 2023             Machine Hours         609         625             Oil Hours         109         120             Oil Changed         Not Changed             Sample Status         ABNORMAL         NORMAL             OIL CONDITION           Visc @ 40°C         CSt         ■105         ■107             CONTAMINATION           Water         %         NEG         NEG              Silicon         ppm         12         13              Sodium         ppm         17         3              Sodium         ppm         17         3              WEAR METALS           PQ         34         27              VEAR METALS           PQ         34         27 <t< th=""><th></th><th>MION</th><th></th><th></th><th></th></t<>		MION			
Machine Hours         609         625             Oil Hours         109         120             Sample Status         ABNORMAL         NORMAL             DIL CONDITION           Visc @ 40°C         cSt         105         107             CONTAMINATION           Water         %         NEG         NEG              Sodium         ppm         12         13              Sodium         ppm         17         3              VEAR METALS           PQ         344         27              VEAR METALS           PQ         344         27              VEAR METALS           PQ         344               PQ         34	•				
Oil Hours         109         120             Oil Changed         Not Changed             Sample Status         ABNORMAL         NORMAL             OIL CONDITION           Visc @ 40°C         CSt         ■105         ■107             CONTAMINATION           Water         %         NEG         NEG              Sodium         ppm         12         13              Sodium         ppm         17         ■3	•				
Oil Changed Sample Status         Not Changd ABNORMAL         Changed NORMAL             Oil Condition           Visc @ 40°C					
Sample Status					
OIL CONDITION	•		_		
Visc @ 40°C   CSt   105   107	Sample Status		ABNORMAL	NORMAL	 
Vater	OIL CONDITION				
NEG	Visc @ 40°C	cSt	<b>105</b>	□107	 
Silicon       ppm       12       13           Sodium       ppm       17       3           WEAR METALS         PQ       34       27           Iron       259       155           Copper       ppm       17       14           Lead       ppm       0       0           Lead       ppm       4       0           Aluminum       ppm       4       0           Chromium       ppm       2       2           Molybdenum       ppm       0       <-1	CONTAMINATION				
Silicon       ppm       12       13           Sodium       ppm       17       3           WEAR METALS         PQ       34       27           Iron       259       155           Copper       ppm       17       14           Lead       ppm       0       0           Lead       ppm       4       0           Aluminum       ppm       4       0           Chromium       ppm       2       2           Molybdenum       ppm       0       <-1	Water	%	NEG	NEG	 
Sodium         ppm         17         33             WEAR METALS           PQ         34         27             Iron         ppm         259         155             Copper         ppm         17         14             Lead         ppm         0         0             Tin         ppm         4         0             Aluminum         ppm         4         0             Chromium         ppm         2         2             Molybdenum         ppm         0         <1	Silicon	ppm	12	13	 
Potassium         ppm         ■ 1             WEAR METALS           PQ         ■ 34         ■ 27             Iron         ppm         ▲ 259         ■ 155             Copper         ppm         ● 17         ■ 14             Lead         ppm         ● 0              Aluminum         ppm         ● 1         0              Aluminum         ppm         ● 2         ■ 2              Chromium         ppm         ● 2         ■ 2              Molybdenum         ppm         ● 0         -              Nickel         ppm         ● 2         ■ 1              Nikel         ppm         ● 0         ● 0              Silver         ppm         ● 0         ● 0              Vanadium         ppm         ● 0         ● 9 </td <td>Sodium</td> <td></td> <td><b>17</b></td> <td><b>3</b></td> <td> </td>	Sodium		<b>17</b>	<b>3</b>	 
WEAR METALS         PQ       34       27           Iron       ppm       259       155           Copper       ppm       0       0           Lead       ppm       0       0           Tin       ppm       4       0           Aluminum       ppm       2       2           Chromium       ppm       0       <-1	Potassium		<b>■&lt;1</b>	<b>1</b>	 
Iron	WEAR METALS				
Copper         ppm         17         14             Lead         ppm         0         0             Tin         ppm         <1	PQ		<b>■34</b>	<b>2</b> 7	 
Lead         ppm         0         0             Tin         ppm         <1	Iron	ppm	<u> </u>	<b>155</b>	 
Tin ppm < 1 0 Aluminum ppm 4 0	Copper	ppm	<b>17</b>	<b>1</b> 4	 
Aluminum       ppm       4       0           Chromium       ppm       2       2           Molybdenum       ppm       0       <1	Lead	ppm	0	0	 
Chromium         ppm         2         2             Molybdenum         ppm         0         <1	Tin	ppm	<1	0	 
Molybdenum         ppm         0            Nickel         ppm         2         1	Aluminum	ppm	4	0	 
Nickel         ppm         2         1             Titanium         ppm         0         0             Silver         ppm         0         0             Manganese         ppm         5         2             Vanadium         ppm         0         0             ADDITIVES               Calcium         ppm         0         9             Magnesium         ppm         0         2             Zinc         ppm         3         14             Phosphorus         ppm         1422         1297             Barium         ppm         0         0	Chromium	ppm	<b>2</b>	<b>2</b>	 
Titanium         ppm         0         0             Silver         ppm         0         0             Manganese         ppm         5         2             Vanadium         ppm         0         0             ADDITIVES           Calcium         ppm         0         9             Magnesium         ppm         0         2             Zinc         ppm         3         14             Phosphorus         ppm         1422         1297             Barium         ppm         0         0	Molybdenum	ppm	<b>■</b> 0	<b>-</b> <1	 
Silver         ppm         0         0             Manganese         ppm         5         2             ADDITIVES           Calcium         ppm         0         9             Magnesium         ppm         0         2             Zinc         ppm         3         14             Phosphorus         ppm         1422         1297             Barium         ppm         0         0	Nickel	ppm	<b>2</b>	<b>1</b>	 
Manganese         ppm         5         2             Vanadium         ppm         0         0             ADDITIVES           Calcium         ppm         0         9             Magnesium         ppm         0         2             Zinc         ppm         3         14             Phosphorus         ppm         1422         1297             Barium         ppm         0         0	Titanium	ppm	0	0	 
Vanadium         ppm         0         0             ADDITIVES           Calcium         ppm         0         9             Magnesium         ppm         0         2             Zinc         ppm         3         14             Phosphorus         ppm         1422         1297             Barium         ppm         0         0	Silver	ppm	0		 
ADDITIVES  Calcium ppm 0 9  Magnesium ppm 0 2  Zinc ppm 3 14  Phosphorus ppm 1422 1297  Barium ppm 0 0 0	Manganese	ppm	<b>5</b>	_2	 
Calcium         ppm         0         9             Magnesium         ppm         0         2             Zinc         ppm         3         14             Phosphorus         ppm         1422         1297             Barium         ppm         0         0	Vanadium	ppm	0	0	 
Magnesium         ppm         0         2             Zinc         ppm         3         14             Phosphorus         ppm         1422         1297             Barium         ppm         0	ADDITIVES				
Magnesium         ppm         0         2             Zinc         ppm         3         14             Phosphorus         ppm         1422         1297             Barium         ppm         0	Calcium	ppm	<b>0</b>	<b>9</b>	 
Zinc       ppm       3       14           Phosphorus       ppm       1422       1297           Barium       ppm       0	Magnesium		<b>■</b> 0		 
Phosphorus         ppm         1422         1297             Barium         ppm         0         0	_		<b>■</b> 3	<b>1</b> 4	 
<b>Barium</b> ppm <b>■0</b> ■0	Phosphorus		<b>1422</b>	<b>1297</b>	 
	•	ppm	<b>0</b>	<b>0</b>	 
	Boron	ppm	<b>283</b>	■311	 

## **Lockwood Boat Works Inc**

1825 Highway 35, Morgan SOUTH AMBOY, NJ US 08879

Contact: Ellen Lockwood ellen@lockwoodboatworks.com;maryann@lockwoodboatworks.com

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## Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The iron level is abnormal. All other 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:
 VP153187

 Unique No:
 10956104

 Signed:
 Sean Felton

 Report Date:
 04 Apr 2024

## **OIL ANALYSIS REPORT**



