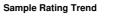


OIL ANALYSIS REPORT



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PREVOST MOTOR COACH 115

Rear Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

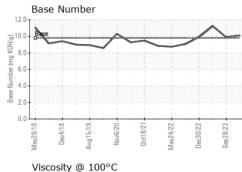
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

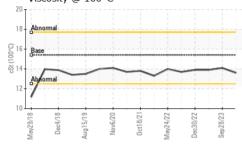
SAMPLE INFORMATION method limit/base current history1 history2 Sample Date Client Info 9CA0111555 PCA0111555 PCA0111655 PCA0111655 PCA01116755 PCA0116755					Oct2021 May2022 Dec2022		
Sample Date Client Info 30 Jan 2024 28 Sep 2023 15 May 2023 Machine Age mis Client Info 187666 177112 167073 Oil Age mis Client Info 10554 10039 11616 Oil Changed Client Info Changed Changed Changed Changed Sample Status OI Init/base current NORMAL NORMAL NORMAL Fuel WC Method >5 <1.0 <1.0 <1.0 <1.0 Water WC Method >5 <1.0 <1.0 <1.0 <1.0 WEAR METALS method Imit/base current Nistory2 Nistory2 Iron ppm ASTM 051858 >20 <1 0 <1 Silver ppm ASTM 051858 >30 0 0 0 Silver ppm ASTM 051858 >20 2 1 0 0 Gilvanium ppm ASTM 051858 >30	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Machine Age mis Client Info 187666 177112 167073 Oil Age mis Client Info 10554 10039 11616 Oil Changed Client Info Changed Change	Sample Number		Client Info		PCA0111555	PCA0101043	PCA0094187
Off Age mis Client Info 10554 10039 11616 Oil Changed Client Info Changed Ch	Sample Date		Client Info		30 Jan 2024	28 Sep 2023	15 May 2023
Oil Changed Sample Status Client Info Changed NORMAL NORMAL NORMAL NORMAL Fuel WC Method >5 <1.0 <1.0 <1.0 <1.0 Water WC Method >5 <1.0 NEG NEG NEG Glycol WC Method >5 <1.0 NEG NEG Mater ppm ASTM D5185m >20 <1 0 <1 Itanium ppm ASTM D5185m >20 2 1 0 Silver ppm ASTM D5185m >20 2 1 0 Copper ppm ASTM D5185m >30 0 0 0 0	Machine Age	mls	Client Info		187666	177112	167073
Sample Status NORMAL NORMAL NORMAL NORMAL NORMAL CONTAMINATION method imitibase current history1 history2 Fuel WC Method >5 <1.0 <1.0 <1.0 Water WC Method >0.2 NEG NEG NEG Glycol WC Method >0.2 NEG NEG NEG WEAR METALS method imitibase current history1 history2 Iron ppm ASTM D5185m >20 <1 0 <1 Otcomium ppm ASTM D5185m >20 2 1 0 Aluminum ppm ASTM D5185m >30 0 0 0 Aluminum ppm ASTM D5185m >20 2 1 0 Lead ppm ASTM D5185m >30 1 <1 2 Tin ppm ASTM D5185m >10 0 0 0 Vanadium	Oil Age	mls	Client Info		10554	10039	11616
CONTAMINATION method limit/base current history1 history2 Fuel WC Method >5 <1.0 <1.0 <1.0 Water WC Method >0.2 NEG NEG NEG Glycol WC Method Imit/base current history1 history2 Iron ppm ASTM D5185m >100 12 11 13 Chromium ppm ASTM D5185m >20 <1 0 <1 Nickel ppm ASTM D5185m >40 <1 0 <1 Nickel ppm ASTM D5185m >20 2 1 0 Silver ppm ASTM D5185m >20 2 1 0 Copper ppm ASTM D5185m >30 0 0 0 Copper ppm ASTM D5185m >15 <1 <1 21 Tin ppm ASTM D5185m 0 0 0 0 C	Oil Changed		Client Info		Changed	Changed	Changed
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Silver ppm ASTM D5185m >3 0 0 0 Aluminum ppm ASTM D5185m >20 2 1 0 Lead ppm ASTM D5185m >40 <1 0 <1 Copper ppm ASTM D5185m >330 1 <1 <1 2 Tin ppm ASTM D5185m >15 <1 <1 <1 <1 Vanadium ppm ASTM D5185m >15 <1 <1 <1 <1 Vanadium ppm ASTM D5185m 0 0 0 0 0 Cadmium ppm ASTM D5185m 0 3 <1 0 Boron ppm ASTM D5185m 0 3 <1 0 Magnesium ppm ASTM D5185m 0 <1 0 <1 Magnesium ppm ASTM D5185m 1070 1052 1000 1072 Phosphorus ppm							
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Copper ppm ASTM D5185m >330 1 <1							
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Magnesium ppm ASTM D5185m 1010 932 934 926 Calcium ppm ASTM D5185m 1070 1052 1000 1072 Phosphorus ppm ASTM D5185m 1070 1052 1000 1072 Phosphorus ppm ASTM D5185m 1150 1048 947 1020 Zinc ppm ASTM D5185m 1270 1304 1197 1197 Sulfur ppm ASTM D5185m 2060 3155 2764 2644 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 3 2 4 Sodium ppm ASTM D5185m >20 2 3 3 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.2 0.2 0.2 Nitration Abs/.mm *ASTM D74	Boron Barium	ppm	ASTM D5185m ASTM D5185m	0	3 0	<1 0	0
Calcium ppm ASTM D5185m 1070 1052 1000 1072 Phosphorus ppm ASTM D5185m 1150 1048 947 1020 Zinc ppm ASTM D5185m 1270 1304 1197 1197 Sulfur ppm ASTM D5185m 2060 3155 2764 2644 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 3 2 4 Sodium ppm ASTM D5185m >20 2 2 3 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.2 0.2 0.2 Nitration Abs/.mm *ASTM D7624 >20 7.5 6.7 7.6 Sulfation Abs/.lmm *ASTM D7415 >30 17.9 17.8 18.9	Boron Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60	3 0 57	<1 0 55	0 0 60
Phosphorus ppm ASTM D5185m 1150 1048 947 1020 Zinc ppm ASTM D5185m 1270 1304 1197 1197 Sulfur ppm ASTM D5185m 2060 3155 2764 2644 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 3 2 4 Sodium ppm ASTM D5185m >20 2 2 3 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D5185m >20 2 2 3 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.2 0.2 0.2 Nitration Abs/cm *ASTM D7624 >20 7.5 6.7 7.6 Sulfation Abs/.1mm *ASTM D7415 <td< th=""><th>Boron Barium Molybdenum Manganese</th><th>ppm ppm ppm</th><th>ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m</th><th>0 0 60 0</th><th>3 0 57 <1</th><th><1 0 55 0</th><th>0 0 60 <1</th></td<>	Boron Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60 0	3 0 57 <1	<1 0 55 0	0 0 60 <1
Zinc ppm ASTM D5185m 1270 1304 1197 1197 Sulfur ppm ASTM D5185m 2060 3155 2764 2644 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 3 2 4 Sodium ppm ASTM D5185m >25 3 2 4 Potassium ppm ASTM D5185m >20 2 2 3 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.2 0.2 0.2 Nitration Abs/cm *ASTM D7624 >20 7.5 6.7 7.6 Sulfation Abs/.1mm *ASTM D7415 >30 17.9 17.8 18.9 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414<	Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60 0 1010	3 0 57 <1 932	<1 0 55 0 934	0 0 60 <1 926
Sulfur ppm ASTM D5185m 2060 3155 2764 2644 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 3 2 4 Sodium ppm ASTM D5185m >25 3 2 4 Potassium ppm ASTM D5185m >20 2 2 3 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.2 0.2 0.2 Soot % % *ASTM D7624 >20 7.5 6.7 7.6 Sulfation Abs/cm *ASTM D7624 >20 7.5 6.7 7.6 Sulfation Abs/.1mm *ASTM D7415 >30 17.9 17.8 18.9 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414	Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60 0 1010 1070	3 0 57 <1 932 1052	<1 0 55 0 934 1000	0 0 60 <1 926 1072
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Sodium ppm ASTM D5185m <1	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60 0 1010 1070 1150 1270	3 0 57 <1 932 1052 1048 1304	<1 0 55 0 934 1000 947 1197	0 0 60 <1 926 1072 1020 1197
Sodium ppm ASTM D5185m <1	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60 0 1010 1070 1150 1270 2060	3 0 57 <1 932 1052 1048 1304 3155	<1 0 55 0 934 1000 947 1197 2764	0 0 60 <1 926 1072 1020 1197 2644
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OIL ANALYSIS REPORT

VISUAL







Certificate L2367