

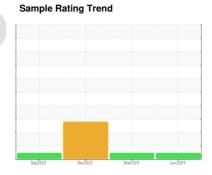
OIL ANALYSIS REPORT



DUMP TRUCKS [DUMP TRUCKS] 133

Diesel Engine

DIESEL ENGINE OIL SAE 10W30 (--- GAL)





Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

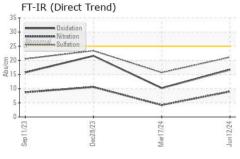
Fluid Condition

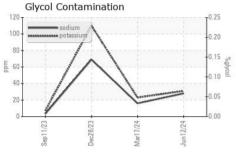
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

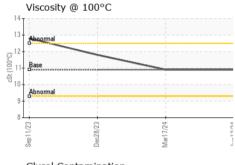
Sample Number Client Info SBP0007528 SBP0005843 SBP0005683 28 Dec 2023 ABACTION VAIVE Client Info 12 Jun 2024 17 Mar 2024 28 Boez 2023 ABACTION 25000 1000 25000 Client Info 25000 10000 25000 Changed Cha	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Date Client Info 12 Jun 2024 17 Mar 2024 28 Dec 2023 Machine Age mls Client Info 320914 294762 286311 Oil Age mls Client Info 25000 10000 25000 Oil Changed Client Info Changed Changed Changed Changed Sample Status Client Info Changed Changed Changed Changed Changed CONTAMINATION method limit/bass current history1 history2 Fuel WC Method >3.0 <1.0	Sample Number		Client Info		SBP0007528	SBP0005843	SBP0005638
Oil Age mls Client Info 25000 10000 25000 Oil Changed Sample Status Client Info Changed Changed Changed Changed Changed Changed Changed Changed NORMAL Changed NORMAL ABNORMAL Changed Changed Changed Changed Changed Changed NORMAL CONTAMINATION method limit/base current history1 history2 Fuel WC Method >3.0 <1.0 <1.0 0.1 Water WC Method >0.2 NEG NEG NEG Iron ppm ASTM D5185m >12.0 18 8 23 Chromitium ppm ASTM D5185m >2.0 0 <1 <1 Nickel ppm ASTM D5185m >2.0 0 <1 <1 Silver ppm ASTM D5185m >2.2 -1 0 0 Aluminum ppm ASTM D5185m >2.0 -1 -1 <1 Capper ppm ASTM D5185m >2.0 1 1 -1 <1 <td< th=""><th></th><th></th><th>Client Info</th><th></th><th>12 Jun 2024</th><th>17 Mar 2024</th><th>28 Dec 2023</th></td<>			Client Info		12 Jun 2024	17 Mar 2024	28 Dec 2023
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Titanium ppm ASTM D5185m >2 0 <1							
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Calcium ppm ASTM D5185m 3000 1138 970 1459 Phosphorus ppm ASTM D5185m 1150 1137 938 867 Zinc ppm ASTM D5185m 1350 1364 1085 1029 Sulfur ppm ASTM D5185m 4250 3625 3067 2712 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 8 4 10 Sodium ppm ASTM D5185m >20 31 23 110 Glycol *ASTM D5185m >20 31 23 110 Glycol *ASTM D5185m >20 31 23 110 Glycol *ASTM D5185m >20 31 23 110 INFRA-RED method limit/base current history1 history2 Soot % *ASTM D7844	Boron Barium	ppm	ASTM D5185m ASTM D5185m	250 10	7 0	4	10 11
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Zinc ppm ASTM D5185m 1350 1364 1085 1029 Sulfur ppm ASTM D5185m 4250 3625 3067 2712 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 8 4 10 Sodium ppm ASTM D5185m 28 16 △ 69 Potassium ppm ASTM D5185m >20 31 23 △ 110 Glycol % *ASTM D2982 NEG NEG NEG INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >4 0.5 0.1 0.5 Nitration Abs/cm *ASTM D7624 >20 9.0 4.2 10.6 Sulfation Abs/.1mm *ASTM D7415 >30 21.1 15.7 23.4 FLUID DEGRADATION method limit/base	Boron Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	250 10 100	7 0 66 <1	4 1 48 <1	10 11 60 <1
Sulfur ppm ASTM D5185m 4250 3625 3067 2712 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 8 4 10 Sodium ppm ASTM D5185m 28 16 △ 69 Potassium ppm ASTM D5185m >20 31 23 △ 110 Glycol % *ASTM D2982 NEG NEG NEG INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >4 0.5 0.1 0.5 Nitration Abs/cm *ASTM D7624 >20 9.0 4.2 10.6 Sulfation Abs/.1mm *ASTM D7415 >30 21.1 15.7 23.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7	Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	250 10 100 450	7 0 66 <1 1020	4 1 48 <1 708	10 11 60 <1 653
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Silicon ppm ASTM D5185m >25 8 4 10 Sodium ppm ASTM D5185m 28 16 69 Potassium ppm ASTM D5185m >20 31 23 110 Glycol % *ASTM D2982 NEG NEG NEG INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >4 0.5 0.1 0.5 Nitration Abs/cm *ASTM D7624 >20 9.0 4.2 10.6 Sulfation Abs/.1mm *ASTM D7415 >30 21.1 15.7 23.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.7 10.2 21.6	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	250 10 100 450 3000 1150	7 0 66 <1 1020 1138 1137	4 1 48 <1 708 970 938	10 11 60 <1 653 1459 867
Sodium ppm ASTM D5185m 28 16 △ 69 Potassium ppm ASTM D5185m >20 31 23 ▲ 110 Glycol % *ASTM D2982 NEG NEG NEG INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >4 0.5 0.1 0.5 Nitration Abs/cm *ASTM D7624 >20 9.0 4.2 10.6 Sulfation Abs/.1mm *ASTM D7415 >30 21.1 15.7 23.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.7 10.2 21.6	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 ASTM D5185m	250 10 100 450 3000 1150 1350	7 0 66 <1 1020 1138 1137	4 1 48 <1 708 970 938 1085	10 11 60 <1 653 1459 867 1029
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Nitration Abs/cm *ASTM D7624 > 20 9.0 4.2 10.6 Sulfation Abs/.1mm *ASTM D7415 > 30 21.1 15.7 23.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 > 25 16.7 10.2 21.6	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	250 10 100 450 3000 1150 1350 4250 limit/base >25	7 0 66 <1 1020 1138 1137 1364 3625 current 8 28 31	4 1 48 <1 708 970 938 1085 3067 history1 4 16 23	10 11 60 <1 653 1459 867 1029 2712 history2 10 69 110
Sulfation Abs/.1mm *ASTM D7415 >30 21.1 15.7 23.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 16.7 10.2 21.6	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Glycol	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m METHOD ASTM D5185m	250 10 100 450 3000 1150 1350 4250 limit/base >25 >20	7 0 66 <1 1020 1138 1137 1364 3625 current 8 28 31 NEG	4 1 48 <1 708 970 938 1085 3067 history1 4 16 23 NEG	10 11 60 <1 653 1459 867 1029 2712 history2 10 69 110 NEG
Sulfation Abs/.1mm *ASTM D7415 > 30 21.1 15.7 23.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 > 25 16.7 10.2 21.6	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Glycol INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m *ASTM D2982	250 10 100 450 3000 1150 1350 4250 limit/base >25 >20	7 0 66 <1 1020 1138 1137 1364 3625 current 8 28 31 NEG	4 1 48 <1 708 970 938 1085 3067 history1 4 16 23 NEG	10 11 60 <1 653 1459 867 1029 2712 history2 10 △ 69 △ 110 NEG history2
Oxidation Abs/.1mm *ASTM D7414 >25 16.7 10.2 21.6	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Glycol INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m *ASTM D5185m	250 10 100 450 3000 1150 1350 4250 limit/base >25 >20	7 0 66 <1 1020 1138 1137 1364 3625 current 8 28 31 NEG current 0.5	4 1 48 <1 708 970 938 1085 3067 history1 4 16 23 NEG history1 0.1	10 11 60 <1 653 1459 867 1029 2712 history2 10 △ 69 △ 110 NEG history2 0.5
	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Glycol INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m *ASTM D5185m *ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7844	250 10 100 450 3000 1150 1350 4250 limit/base >25 >20 limit/base	7 0 66 <1 1020 1138 1137 1364 3625 current 8 28 31 NEG current 0.5 9.0	4 1 48 <1 708 970 938 1085 3067 history1 4 16 23 NEG history1 0.1 4.2	10 11 60 <1 653 1459 867 1029 2712 history2 10 △ 69 △ 110 NEG history2 0.5 10.6
	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Glycol INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m *ASTM D7844 *ASTM D7624 *ASTM D76145	250 10 100 450 3000 1150 1350 4250 limit/base >25 >20 limit/base >4 >20 >30	7 0 66 <1 1020 1138 1137 1364 3625 current 8 28 31 NEG current 0.5 9.0 21.1	4 1 48 <1 708 970 938 1085 3067 history1 4 16 23 NEG history1 0.1 4.2 15.7	10 11 60 <1 653 1459 867 1029 2712 history2 10 △ 69 △ 110 NEG history2 0.5 10.6 23.4
	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Glycol INFRA-RED Soot % Nitration Sulfation FLUID DEGRADA	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m *ASTM D2982 *ASTM D7844 *ASTM D7624 *ASTM D7624 *ASTM D7415 *Method	250 10 100 450 3000 1150 1350 4250 limit/base >25 >20 limit/base >4 >20 >30 limit/base	7 0 66 <1 1020 1138 1137 1364 3625 current 8 28 31 NEG current 0.5 9.0 21.1 current	4 1 48 <1 708 970 938 1085 3067 history1 4 16 23 NEG history1 0.1 4.2 15.7 history1	10 11 60 <1 653 1459 867 1029 2712 history2 10 ▲ 69 ▲ 110 NEG history2 0.5 10.6 23.4 history2

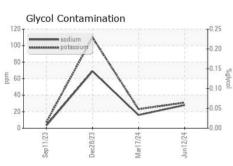


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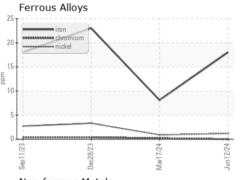


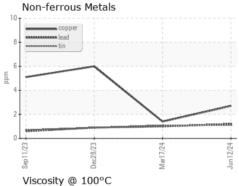


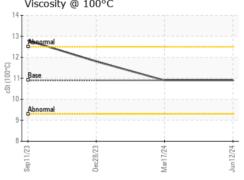
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

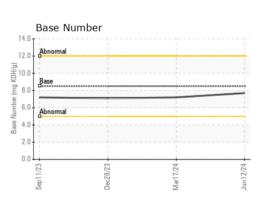
FLUID PROPERI	IES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	10.9	10.9	10.9	11.8

GRAPHS













Laboratory Sample No.

: SBP0007528 Lab Number : 06217625

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Unique Number : 11090489

Received **Tested**

: 21 Jun 2024 : 25 Jun 2024

Diagnosed : 25 Jun 2024 - Don Baldridge

Test Package : FLEET (Additional Tests: Glycol) Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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