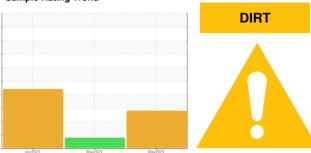


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

PETERBILT 2403

Diesel Engine

DIESEL ENGINE OIL SAE 5W30 (44 QTS)

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

Cylinder, crank, or cam shaft wear is indicated.

Contamination

Elemental level of silicon (Si) above normal indicating ingress of seal material. Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components.

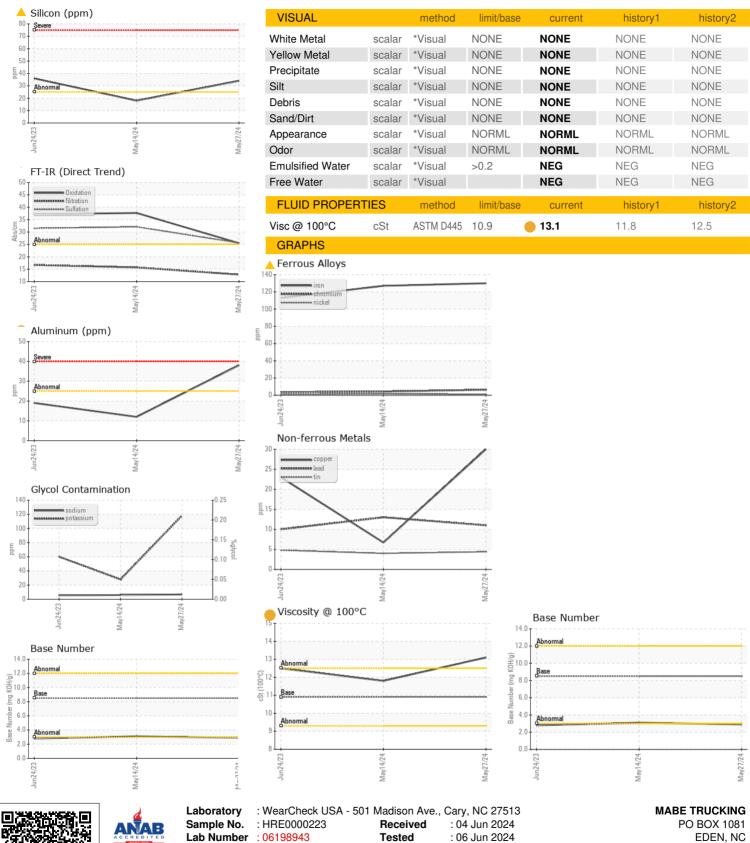
Fluid Condition

The oil viscosity is higher than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

SAMPLE INFORMATION method fimit/base current history1 history2							
Sample Date Client Info 27 May 2024 14 May 2024 24 Jun 2023 Machine Age mls Client Info 116492 228849 102286 Oil Age mls Client Info 50000 50000 50000 Oil Age mls Client Info Changed Changed Changed Sample Status Client Info Changed ABNORMAL ABNORMAL ABNORMAL CONTAMINATION method limit/base current history1 history2 WEAR METALS method limit/base current history1 history2 Iron ppm ASTM 05185m >2.0 NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM 05185m >2.0 1 1 1 Iron ppm ASTM 05185m >2.0 1 <1 1 Iron ppm ASTM 05185m >2.0 0	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Date Client Info 27 May 2024 14 May 2024 24 Jun 2023 Machine Age mls Client Info 116492 228849 102286 Oil Age mls Client Info 50000 50000 50000 Oil Age mls Client Info Changed Changed Changed Sample Status Client Info Changed ABNORMAL ABNORMAL ABNORMAL CONTAMINATION method limit/base current history1 history2 WEAR METALS method limit/base current history1 history2 Iron ppm ASTM 05185m >2.0 NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM 05185m >2.0 1 1 1 Iron ppm ASTM 05185m >2.0 1 <1 1 Iron ppm ASTM 05185m >2.0 0	Sample Number		Client Info		HRE0000223	HRE0000207	WC0814857
Machine Age mls Client Info 50000 50000 50000 Oil Age mls Client Info 50000 50000 50000 Oil Changed Client Info Changed Changed Changed Changed Changed Changed Changed ABNORMAL ABN							
Oil Age mls Client Info 50000 50000 50000 Oil Changed Client Info Changed C	•	mls			-	,	
Oil Changed Sample Status Client Info Changed ABNORMAL CONTAMINATION Control Material Mate							
Sample Status	•	11110					
Fuel					_	Ü	
Fuel WC Method S5 NEG NEG NEG NEG	CONTAMINATION	V	method	limit/base	current	history1	history2
Water WC Method >0.2 NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >100 130 127 113 Chromium ppm ASTM D5185m >20 6 4 4 Nickel ppm ASTM D5185m >20 0 -1 -1 Silver ppm ASTM D5185m >2 0 -1 -1 Aluminum ppm ASTM D5185m >2 0 -1 -1 Aluminum ppm ASTM D5185m >2 0 -1 -1 Lead ppm ASTM D5185m >40 11 13 10 Copper ppm ASTM D5185m >15 4 4 5 Vanadium ppm ASTM D5185m 0 -1 0 -1 Cadmium ppm ASTM D5185m 15 4 4	Fuel		WC Method	>5	<1.0		
Iron	Water		WC Method	>0.2		NEG	NEG
Chromium ppm ASTM D5185m >20 6 4 4 Nickel ppm ASTM D5185m >2 1 2 1 Tittanium ppm ASTM D5185m >2 0 -1 -1 Silver ppm ASTM D5185m >2 0 1 -1 Aluminum ppm ASTM D5185m >2 0 1 -1 Aluminum ppm ASTM D5185m >20 11 13 10 Copper ppm ASTM D5185m >40 11 13 10 Copper ppm ASTM D5185m >15 4 4 5 Vanadium ppm ASTM D5185m 0 -1 0 -1 Cadmium ppm ASTM D5185m 10 -1 0 -1 Boron ppm ASTM D5185m 25 14 13 16 Barium ppm ASTM D5185m 10 5 0	WEAR METALS		method	limit/base	current	history1	history2
Chromium ppm ASTM D5185m >20 6 4 4 Nickel ppm ASTM D5185m >2 1 2 1 Titanium ppm ASTM D5185m >2 0 -1 -1 Silver ppm ASTM D5185m >2 0 1 -1 Aluminum ppm ASTM D5185m >2 0 1 -1 Aluminum ppm ASTM D5185m >20 11 13 10 Copper ppm ASTM D5185m >40 11 13 10 Copper ppm ASTM D5185m >15 4 4 5 Vanadium ppm ASTM D5185m 0 <1	Iron	ppm	ASTM D5185m	>100	<u> </u>	<u> </u>	<u> </u>
Titanium	Chromium	• •	ASTM D5185m	>20	6	4	4
Titanium ppm ASTM D5185m >2 0 <1	Nickel		ASTM D5185m	>2	1	2	1
Aluminum ppm ASTM D5185m >25 38 12 19 Lead ppm ASTM D5185m >40 11 13 10 Copper ppm ASTM D5185m >330 30 7 23 Tin ppm ASTM D5185m >15 4 4 5 Vanadium ppm ASTM D5185m 0 <1 0 Cadmium ppm ASTM D5185m 0 <1 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 250 14 13 16 Barium ppm ASTM D5185m 10 5 0 <1 Molybdenum ppm ASTM D5185m 100 64 78 66 Magnesium ppm ASTM D5185m 100 64 78 66 Magnesium ppm ASTM D5185m 3000 1757 1045 1683	Titanium		ASTM D5185m	>2	0	<1	<1
Aluminum ppm ASTM D5185m >25 38 12 19 Lead ppm ASTM D5185m >40 11 13 10 Copper ppm ASTM D5185m >330 30 7 23 Tin ppm ASTM D5185m >15 4 4 5 Vanadium ppm ASTM D5185m 0 <1 0 Cadmium ppm ASTM D5185m 0 <1 0 Cadmium ppm ASTM D5185m 250 14 13 16 Boron ppm ASTM D5185m 10 5 0 <1 Molybdenum ppm ASTM D5185m 100 64 78 66 Magnesium ppm ASTM D5185m 100 64 78 66 Magnesium ppm ASTM D5185m 450 482 1123 533 Calcium ppm ASTM D5185m 3000 1757 1045 1683<	Silver		ASTM D5185m	>2	0	1	<1
Copper ppm ASTM D5185m >330 30 7 23 Tin ppm ASTM D5185m >15 4 4 5 Vanadium ppm ASTM D5185m 0 <1 0 Cadmium ppm ASTM D5185m 0 <1 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 250 14 13 16 Barium ppm ASTM D5185m 10 5 0 <1 Molybdenum ppm ASTM D5185m 100 64 78 66 Magnesium ppm ASTM D5185m 100 64 78 66 Magnesium ppm ASTM D5185m 450 482 1123 533 Calcium ppm ASTM D5185m 3000 1757 1045 1683 Phosphorus ppm ASTM D5185m 1350 1213 1386	Aluminum	• •	ASTM D5185m	>25	38	12	1 9
Tin ppm ASTM D5185m >15 4 4 5 Vanadium ppm ASTM D5185m 0 <1	Lead	ppm	ASTM D5185m	>40	11	13	10
Vanadium ppm ASTM D5185m 0 <1	Copper	ppm	ASTM D5185m	>330	30	7	23
Cadmium ppm ASTM D5185m 0 <1	Tin	ppm	ASTM D5185m	>15	4	4	5
ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 250 14 13 16 Barium ppm ASTM D5185m 10 5 0 <1 Molybdenum ppm ASTM D5185m 100 64 78 66 Magnesium ppm ASTM D5185m 100 64 78 66 Magnesium ppm ASTM D5185m 100 64 78 66 Magnesium ppm ASTM D5185m 450 482 1123 533 Calcium ppm ASTM D5185m 3000 1757 1045 1683 Phosphorus ppm ASTM D5185m 1150 965 1020 978 Zinc ppm ASTM D5185m 1350 1213 1386 1294 Sulfur ppm ASTM D5185m 25 34 18 4 CONTAMINANTS method limit/base	Vanadium	ppm	ASTM D5185m		0	<1	0
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Barium ppm ASTM D5185m 10 5 0 <1							
Molybdenum ppm ASTM D5185m 100 64 78 66 Manganese ppm ASTM D5185m 6 2 6 Magnesium ppm ASTM D5185m 450 482 1123 533 Calcium ppm ASTM D5185m 3000 1757 1045 1683 Phosphorus ppm ASTM D5185m 3000 1757 1045 1683 Zinc ppm ASTM D5185m 1150 965 1020 978 Zinc ppm ASTM D5185m 1350 1213 1386 1294 Sulfur ppm ASTM D5185m 4250 2727 3016 2844 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 34 18 36 Sodium ppm ASTM D5185m >20 118 28 60 Glycol % *ASTM D5185m	ADDITIVES		method	limit/base	current	history1	history2
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Calcium ppm ASTM D5185m 3000 1757 1045 1683 Phosphorus ppm ASTM D5185m 1150 965 1020 978 Zinc ppm ASTM D5185m 1350 1213 1386 1294 Sulfur ppm ASTM D5185m 4250 2727 3016 2844 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 34 18 36 Sodium ppm ASTM D5185m 7 6 5 Potassium ppm ASTM D5185m >20 118 28 60 Glycol % *ASTM D2982 NEG NEG NEG INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7624 >20 12.8 15.7 16.7 Sulfation Abs/.1mm *ASTM D7415 >30	Boron Barium	ppm	ASTM D5185m ASTM D5185m	250 10	14 5	13	16 <1
Phosphorus ppm ASTM D5185m 1150 965 1020 978 Zinc ppm ASTM D5185m 1350 1213 1386 1294 Sulfur ppm ASTM D5185m 4250 2727 3016 2844 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 34 18 36 Sodium ppm ASTM D5185m >25 34 18 36 Sodium ppm ASTM D5185m >20 118 28 60 Glycol % *ASTM D5185m >20 118 28 60 Glycol % *ASTM D2982 NEG NEG NEG INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7624 >20 12.8 15.7 16.7 Sulfation Abs/.1mm *ASTM D7415 >3	Boron Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	250 10	14 5 64	13 0 78	16 <1 66
Zinc ppm ASTM D5185m 1350 1213 1386 1294 Sulfur ppm ASTM D5185m 4250 2727 3016 2844 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 ▲ 34 18 ▲ 36 Sodium ppm ASTM D5185m >20 118 28 60 Sodium ppm ASTM D5185m >20 118 28 60 Glycol % *ASTM D5185m >20 118 28 60 Reg NEG NEG NEG NEG NEG INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 1.3 1.2 0.9 Nitration Abs/cm *ASTM D7415 >30 25.6 32.1 31.5 FLUID DEGRADATION method limit/base cu	Boron Barium Molybdenum Manganese	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	250 10 100	14 5 64 6	13 0 78	16 <1 66 6
Sulfur ppm ASTM D5185m 4250 2727 3016 2844 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 ▲ 34 18 ▲ 36 Sodium ppm ASTM D5185m >20 118 28 60 Potassium ppm ASTM D5185m >20 118 28 60 Glycol % *ASTM D2982 NEG NEG NEG INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 1.3 1.2 0.9 Nitration Abs/cm *ASTM D7624 >20 12.8 15.7 16.7 Sulfation Abs/.1mm *ASTM D7415 >30 25.6 32.1 31.5 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM	Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	250 10 100 450	14 5 64 6 482	13 0 78 2 1123	16 <1 66 6 533
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 ▲ 34 18 ▲ 36 Sodium ppm ASTM D5185m 7 6 5 Potassium ppm ASTM D5185m >20 118 28 60 Glycol % *ASTM D2982 NEG NEG NEG INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 1.3 1.2 0.9 Nitration Abs/cm *ASTM D7624 >20 12.8 15.7 16.7 Sulfation Abs/.1mm *ASTM D7415 >30 25.6 32.1 31.5 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 25.5 37.7 37.1	Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	250 10 100 450 3000	14 5 64 6 482 1757	13 0 78 2 1123 1045	16 <1 66 6 533 1683
Silicon ppm ASTM D5185m >25 ▲ 34 18 ▲ 36 Sodium ppm ASTM D5185m 7 6 5 Potassium ppm ASTM D5185m >20 118 28 60 Glycol % *ASTM D2982 NEG NEG NEG INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 1.3 1.2 0.9 Nitration Abs/cm *ASTM D7624 >20 12.8 15.7 16.7 Sulfation Abs/.1mm *ASTM D7415 >30 25.6 32.1 31.5 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 25.5 37.7 37.1	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	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	14 5 64 6 482 1757 965	13 0 78 2 1123 1045 1020	16 <1 66 6 533 1683 978
Sodium ppm ASTM D5185m 7 6 5 Potassium ppm ASTM D5185m >20 118 28 60 Glycol % *ASTM D2982 NEG NEG NEG INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 1.3 1.2 0.9 Nitration Abs/cm *ASTM D7624 >20 12.8 15.7 16.7 Sulfation Abs/.1mm *ASTM D7415 >30 25.6 32.1 31.5 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 25.5 37.7 37.1	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 ASTM D5185m	250 10 100 450 3000 1150 1350	14 5 64 6 482 1757 965 1213	13 0 78 2 1123 1045 1020	16 <1 66 6 533 1683 978 1294
Potassium ppm ASTM D5185m >20 118 28 60 Glycol % *ASTM D2982 NEG NEG NEG INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 1.3 1.2 0.9 Nitration Abs/cm *ASTM D7624 >20 12.8 15.7 16.7 Sulfation Abs/.1mm *ASTM D7415 >30 25.6 32.1 31.5 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 25.5 37.7 37.1	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 ASTM D5185m	250 10 100 450 3000 1150 1350 4250	14 5 64 6 482 1757 965 1213 2727	13 0 78 2 1123 1045 1020 1386 3016	16 <1 66 6 533 1683 978 1294 2844
Glycol % *ASTM D2982 NEG NEG NEG INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 1.3 1.2 0.9 Nitration Abs/cm *ASTM D7624 >20 12.8 15.7 16.7 Sulfation Abs/.1mm *ASTM D7415 >30 25.6 32.1 31.5 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 25.5 37.7 37.1	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	250 10 100 450 3000 1150 1350 4250 limit/base	14 5 64 6 482 1757 965 1213 2727 current	13 0 78 2 1123 1045 1020 1386 3016 history1	16 <1 66 6 533 1683 978 1294 2844 history2
INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 1.3 1.2 0.9 Nitration Abs/cm *ASTM D7624 >20 12.8 15.7 16.7 Sulfation Abs/.1mm *ASTM D7415 >30 25.6 32.1 31.5 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 25.5 37.7 37.1	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	250 10 100 450 3000 1150 1350 4250 limit/base	14 5 64 6 482 1757 965 1213 2727 current	13 0 78 2 1123 1045 1020 1386 3016 history1	16 <1 66 6 533 1683 978 1294 2844 history2 ▲ 36
Soot % % *ASTM D7844 >3 1.3 1.2 0.9 Nitration Abs/cm *ASTM D7624 >20 12.8 15.7 16.7 Sulfation Abs/.1mm *ASTM D7415 >30 25.6 32.1 31.5 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 25.5 37.7 37.1	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	250 10 100 450 3000 1150 1350 4250 Iimit/base >25	14 5 64 6 482 1757 965 1213 2727 current 34 7	13 0 78 2 1123 1045 1020 1386 3016 history1 18 6	16 <1 66 6 533 1683 978 1294 2844 history2 ▲ 36 5
Nitration Abs/cm *ASTM D7624 >20 12.8 15.7 16.7 Sulfation Abs/.1mm *ASTM D7415 >30 25.6 32.1 31.5 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 25.5 37.7 37.1	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 Iimit/base >25	14 5 64 6 482 1757 965 1213 2727 current ▲ 34 7 118	13 0 78 2 1123 1045 1020 1386 3016 history1 18 6 28	16 <1 66 6 533 1683 978 1294 2844 history2 ▲ 36 5 60
Sulfation Abs/.1mm *ASTM D7415 >30 25.6 32.1 31.5 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 25.5 37.7 37.1	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	250 10 100 450 3000 1150 1350 4250 Iimit/base >25 >20	14 5 64 6 482 1757 965 1213 2727 current 34 7 118 NEG	13 0 78 2 1123 1045 1020 1386 3016 history1 18 6 28 NEG	16 <1 66 6 533 1683 978 1294 2844 history2 ▲ 36 5 60 NEG
FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 25.5 37.7 37.1	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 *Method	250 10 100 450 3000 1150 1350 4250 Iimit/base >25 >20	14 5 64 6 482 1757 965 1213 2727 current 34 7 118 NEG current	13 0 78 2 1123 1045 1020 1386 3016 history1 18 6 28 NEG	16 <1 66 6 533 1683 978 1294 2844 history2 ▲ 36 5 60 NEG history2
Oxidation Abs/.1mm *ASTM D7414 >25 25.5 37.7 37.1	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 D7844	250 10 100 450 3000 1150 1350 4250 limit/base >25 >20 limit/base	14 5 64 6 482 1757 965 1213 2727 current 34 7 118 NEG current 1.3	13 0 78 2 1123 1045 1020 1386 3016 history1 18 6 28 NEG history1 1.2	16 <1 66 6 533 1683 978 1294 2844 history2 ▲ 36 5 60 NEG history2 0.9
	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 D5185m **ASTM D5185m **ASTM D7844 **ASTM D7844	250 10 100 450 3000 1150 1350 4250 limit/base >25 >20 limit/base	14 5 64 6 482 1757 965 1213 2727 current ▲ 34 7 118 NEG current 1.3 12.8	13 0 78 2 1123 1045 1020 1386 3016 history1 18 6 28 NEG history1 1.2 15.7	16 <1 66 6 533 1683 978 1294 2844 history2 ▲ 36 5 60 NEG history2 0.9 16.7
	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 >3 >20 >30	14 5 64 6 482 1757 965 1213 2727 current ▲ 34 7 118 NEG current 1.3 12.8 25.6	13 0 78 2 1123 1045 1020 1386 3016 history1 18 6 28 NEG history1 1.2 15.7 32.1	16 <1 66 6 533 1683 978 1294 2844 history2 ▲ 36 5 60 NEG history2 0.9 16.7 31.5
	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 D5185m *ASTM D5185m *ASTM D5185m *ASTM D5185m *ASTM D5185m *ASTM D2982 *ASTM D7844 *ASTM D7844 *ASTM D7844 *ASTM D7844 *ASTM D7844 *ASTM D7844	250 10 100 450 3000 1150 1350 4250 limit/base >25 >20 limit/base >3 >20 >30 limit/base	14 5 64 6 482 1757 965 1213 2727 current ▲ 34 7 118 NEG current 1.3 12.8 25.6 current	13 0 78 2 1123 1045 1020 1386 3016 history1 18 6 28 NEG history1 1.2 15.7 32.1 history1	16 <1 66 6 533 1683 978 1294 2844 history2 ▲ 36 5 60 NEG history2 0.9 16.7 31.5 history2



OIL ANALYSIS REPORT







Certificate 12367

Lab Number : 06198943 Unique Number : 11061066

Tested : 06 Jun 2024

Diagnosed : 06 Jun 2024 - Jonathan Hester Test Package: FLEET (Additional Tests: GLYCOL)

To discuss this sample report, contact Customer Service at 1-800-237-1369. st - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

maintenancemanager@mabetrucking.com T:

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) Report Id: MABEDE [WUSCAR] 06198943 (Generated: 06/06/2024 17:25:05) Rev: 1

Contact/Location: MAINTENANCE ? - MABEDE

F: (336)635-1791

US 27289

Contact: MAINTENANCE