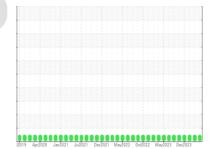


OIL ANALYSIS REPORT

Sample Rating Trend









Canton [Canton] Oil - Port Main Engine

Port Main Engine

DIESEL ENGINE OIL SAE 15W40 (150 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: Top Up Amount: 30 GAL)

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

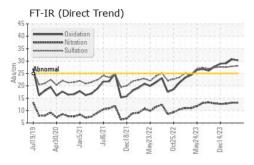
Fluid Condition

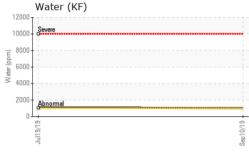
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

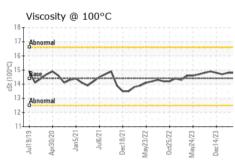
SAMPLE INFORMATION	<u> </u>						
Sample Date Client Info 28 Mar 2024 27 Feb 2024 01 Feb 2024 Machine Age hrs Client Info 16432 0 15361 Oil Age hrs Client Info 10585 0 9514 Oil Changed Client Info Oil Added N/A N/A Oil Added N/A N/A N/A Oil Added N/A N/A N/A N/A Oil Added N/A N/A N/A Oil Added N/A N/A N/A N/A N/A N	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 16432 0 15361 Oil Age hrs Client Info 10885 0 9514 Oil Changed Client Info Oil Added N/A Oil Added Oil Added N/A Oil Added NORMAL Sample Status Client Info Oil Added NORMAL NORMAL NORMAL NORMAL CONTAMINATION method Imitibase current history1 history2 Fuel WC Method >4.0 <1.0	Sample Number		Client Info		WC0805418	WC0805431	WC0805426
Oil Age hrs Client Info 10585 0 9514 Oil Changed Sample Status Client Info Oil Added Oil Added NORMAL N/A Oil Added NORMAL CONTAMINATION mothod limit/base current history1 history2 Fuel WC Method VA-0 <1.0	Sample Date		Client Info		28 Mar 2024	27 Feb 2024	01 Feb 2024
Oil Changed Sample Status	Machine Age	hrs	Client Info		16432	0	15361
NORMAL NORMAL NORMAL	Oil Age	hrs	Client Info		10585	0	9514
CONTAMINATION method limit/base current history1 history2 Fuel WC Method >4.0 <1.0 <1.0 <1.0 <1.0 Glycol WC Method NEG NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >75 42 45 39 Chromium ppm ASTM D5185m >2 0 0 0 Chromium ppm ASTM D5185m >2 0 0 0 Silver ppm ASTM D5185m >2 0 0 0 Silver ppm ASTM D5185m >18 5 4 5 Copper ppm ASTM D5185m >18 5 4 5 Copper ppm ASTM D5185m >10 0 0 0 Tin ppm ASTM D5185m 0 0 0	Oil Changed		Client Info		Oil Added	N/A	Oil Added
Fuel	Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS	CONTAMINATION	٧	method	limit/base	current	history1	history2
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >75 42 45 39 Chromium ppm ASTM D5185m >8 <1 0 <1 Nickel ppm ASTM D5185m >2 0 0 0 Titanium ppm ASTM D5185m >3 0 0 <1 Aluminum ppm ASTM D5185m >2 0 0 0 Aluminum ppm ASTM D5185m >15 3 1 2 Lead ppm ASTM D5185m >80 2 3 4 Copper ppm ASTM D5185m >80 2 3 4 Tin ppm ASTM D5185m >10 0 0 0 Vanadium ppm ASTM D5185m 10 0 0 0 Cadmium ppm ASTM D5185m 10 0 0 <td< th=""><th>Fuel</th><th></th><th>WC Method</th><th>>4.0</th><th><1.0</th><th><1.0</th><th><1.0</th></td<>	Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Iron	Glycol		WC Method		NEG	NEG	NEG
Chromium	WEAR METALS		method	limit/base	current	history1	history2
Nickel	Iron	ppm	ASTM D5185m	>75	42	45	39
Titanium	Chromium	ppm	ASTM D5185m	>8	<1	0	<1
Silver ppm ASTM D5185m >2 0 0 0 Aluminum ppm ASTM D5185m >15 3 1 2 Lead ppm ASTM D5185m >18 5 4 5 Copper ppm ASTM D5185m >80 2 3 4 Tin ppm ASTM D5185m >14 1 0 <1	Nickel	ppm	ASTM D5185m	>2	0	0	0
Aluminum ppm ASTM D5185m >15 3 1 2 Lead ppm ASTM D5185m >18 5 4 5 Copper ppm ASTM D5185m >80 2 3 4 Tin ppm ASTM D5185m 0 0 0 0 Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 250 99 90 101 Barium ppm ASTM D5185m 10 0 0 0 Molybdenum ppm ASTM D5185m 100 112 106 109 Mangaesium ppm ASTM D5185m 450 975 1093 991 Calcium ppm ASTM D5185m 1150 869 828	Titanium	ppm	ASTM D5185m	>3	0	0	<1
Lead	Silver	ppm	ASTM D5185m	>2	0	0	0
Copper ppm ASTM D5185m >80 2 3 4 Tin ppm ASTM D5185m >14 1 0 <1 Vanadium ppm ASTM D5185m 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 250 99 90 101 Barium ppm ASTM D5185m 100 0 0 0 Molybdenum ppm ASTM D5185m 100 112 106 109 Manganese ppm ASTM D5185m 100 112 106 109 Magnesium ppm ASTM D5185m 450 975 1093 991 Calcium ppm ASTM D5185m 1150 869 828 885 Zinc ppm ASTM D5185m 1350 1073 1107	Aluminum	ppm	ASTM D5185m	>15	3	1	2
Tin	Lead	ppm	ASTM D5185m	>18	5	4	5
Vanadium ppm ASTM D5185m 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 250 99 90 101 Barium ppm ASTM D5185m 10 0 0 0 Molybdenum ppm ASTM D5185m 100 112 106 109 Manganese ppm ASTM D5185m 100 112 106 109 Magnesium ppm ASTM D5185m 450 975 1093 991 Calcium ppm ASTM D5185m 3000 1485 1588 1489 Phosphorus ppm ASTM D5185m 1350 1073 1107 1104 Sulfur ppm ASTM D5185m 1350 1073 1107 1104 Sulfur ppm ASTM D5185m 20 7 <t< th=""><th>Copper</th><th>ppm</th><th>ASTM D5185m</th><th>>80</th><th>2</th><th>3</th><th>4</th></t<>	Copper	ppm	ASTM D5185m	>80	2	3	4
Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 250 99 90 101 Barium ppm ASTM D5185m 10 0 0 0 Molybdenum ppm ASTM D5185m 100 112 106 109 Manganese ppm ASTM D5185m 100 112 106 109 Magnesium ppm ASTM D5185m 450 975 1093 991 Calcium ppm ASTM D5185m 3000 1485 1588 1489 Phosphorus ppm ASTM D5185m 3000 1485 1588 1489 Phosphorus ppm ASTM D5185m 1350 1073 1107 1104 Sulfur ppm ASTM D5185m 4250 3099 3225 2850 CONTAMINANTS method limit/base	Tin	ppm	ASTM D5185m	>14	1	0	<1
ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 250 99 90 101 Barium ppm ASTM D5185m 10 0 0 0 Molybdenum ppm ASTM D5185m 100 112 106 109 Manganese ppm ASTM D5185m 100 112 106 109 Magnesium ppm ASTM D5185m 450 975 1093 991 Calcium ppm ASTM D5185m 3000 1485 1588 1489 Phosphorus ppm ASTM D5185m 1350 1073 1107 1104 Sulfur ppm ASTM D5185m 1350 1073 1107 1104 Sulfur ppm ASTM D5185m 220 7 5 5 Sodium ppm ASTM D5185m >20 7 5 5 Sodium ppm ASTM D5185m <t< th=""><th>Vanadium</th><th>ppm</th><th>ASTM D5185m</th><th></th><th>0</th><th>0</th><th>0</th></t<>	Vanadium	ppm	ASTM D5185m		0	0	0
Boron	Cadmium	ppm	ASTM D5185m		0	0	0
Barium							
Molybdenum ppm ASTM D5185m 100 112 106 109 Manganese ppm ASTM D5185m < 1	ADDITIVES		method	limit/base	current	history1	history2
Manganese ppm ASTM D5185m <1		ppm					
Magnesium ppm ASTM D5185m 450 975 1093 991 Calcium ppm ASTM D5185m 3000 1485 1588 1489 Phosphorus ppm ASTM D5185m 1150 869 828 885 Zinc ppm ASTM D5185m 1350 1073 1107 1104 Sulfur ppm ASTM D5185m 4250 3099 3225 2850 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 7 5 5 Sodium ppm ASTM D5185m >158 3 <1 2 Potassium ppm ASTM D5185m >20 1 0 0 Water % ASTM D6304 >0.1 NEG NEG NEG INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7624	Boron	• •	ASTM D5185m	250	99	90	101
Calcium ppm ASTM D5185m 3000 1485 1588 1489 Phosphorus ppm ASTM D5185m 1150 869 828 885 Zinc ppm ASTM D5185m 1350 1073 1107 1104 Sulfur ppm ASTM D5185m 4250 3099 3225 2850 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 7 5 5 Sodium ppm ASTM D5185m >158 3 <1 2 Potassium ppm ASTM D5185m >20 1 0 0 Water % ASTM D5185m >20 1 0 0 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 0.5 0.5 0.5 Nitration Abs/.1mm *ASTM D7415 >30	Boron Barium	ppm	ASTM D5185m ASTM D5185m	250 10	99 0	90	101 0
Phosphorus ppm ASTM D5185m 1150 869 828 885 Zinc ppm ASTM D5185m 1350 1073 1107 1104 Sulfur ppm ASTM D5185m 4250 3099 3225 2850 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 7 5 5 Sodium ppm ASTM D5185m >158 3 <1	Boron Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	250 10	99 0 112	90 0 106	101 0 109
Zinc ppm ASTM D5185m 1350 1073 1107 1104 Sulfur ppm ASTM D5185m 4250 3099 3225 2850 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 7 5 5 Sodium ppm ASTM D5185m >158 3 <1 2 Potassium ppm ASTM D5185m >20 1 0 0 Water % ASTM D6304 >0.1 NEG NEG NEG INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 0.5 0.5 0.5 Nitration Abs/cm *ASTM D7624 >20 13.2 13.2 12.8 Sulfation Abs/.1mm *ASTM D7415 >30 28.0 27.9 27.5 FLUID DEGRADATION method limit/	Boron Barium Molybdenum Manganese	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	250 10 100	99 0 112 <1	90 0 106 0	101 0 109 <1
Sulfur ppm ASTM D5185m 4250 3099 3225 2850 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 7 5 5 Sodium ppm ASTM D5185m >158 3 <1 2 Potassium ppm ASTM D5185m >20 1 0 0 Water % ASTM D6304 >0.1 NEG NEG NEG INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 0.5 0.5 0.5 Nitration Abs/cm *ASTM D7624 >20 13.2 13.2 12.8 Sulfation Abs/.1mm *ASTM D7415 >30 28.0 27.9 27.5 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25	Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	250 10 100 450	99 0 112 <1 975	90 0 106 0 1093	101 0 109 <1 991
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 7 5 5 Sodium ppm ASTM D5185m >158 3 <1 2 Potassium ppm ASTM D5185m >20 1 0 0 Water % ASTM D6304 >0.1 NEG NEG NEG INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 0.5 0.5 0.5 Nitration Abs/cm *ASTM D7624 >20 13.2 13.2 12.8 Sulfation Abs/.1mm *ASTM D7415 >30 28.0 27.9 27.5 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 30.2 30.7 29.1	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	99 0 112 <1 975 1485	90 0 106 0 1093 1588	101 0 109 <1 991 1489
Silicon ppm ASTM D5185m >20 7 5 5 Sodium ppm ASTM D5185m >158 3 <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	99 0 112 <1 975 1485 869	90 0 106 0 1093 1588 828	101 0 109 <1 991 1489 885
Sodium ppm ASTM D5185m >158 3 <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	99 0 112 <1 975 1485 869 1073	90 0 106 0 1093 1588 828 1107	101 0 109 <1 991 1489 885 1104
Potassium ppm ASTM D5185m >20 1 0 0 Water % ASTM D6304 >0.1 NEG NEG NEG INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 0.5 0.5 0.5 Nitration Abs/cm *ASTM D7624 >20 13.2 13.2 12.8 Sulfation Abs/.1mm *ASTM D7415 >30 28.0 27.9 27.5 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 30.2 30.7 29.1	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	99 0 112 <1 975 1485 869 1073 3099	90 0 106 0 1093 1588 828 1107 3225	101 0 109 <1 991 1489 885 1104 2850
Water % ASTM D6304 >0.1 NEG NEG NEG INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 0.5 0.5 0.5 Nitration Abs/cm *ASTM D7624 >20 13.2 13.2 12.8 Sulfation Abs/.1mm *ASTM D7415 >30 28.0 27.9 27.5 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 30.2 30.7 29.1	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	250 10 100 450 3000 1150 1350 4250 limit/base	99 0 112 <1 975 1485 869 1073 3099	90 0 106 0 1093 1588 828 1107 3225	101 0 109 <1 991 1489 885 1104 2850 history2
INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 0.5 0.5 0.5 Nitration Abs/cm *ASTM D7624 >20 13.2 13.2 12.8 Sulfation Abs/.1mm *ASTM D7415 >30 28.0 27.9 27.5 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 30.2 30.7 29.1	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 >20	99 0 112 <1 975 1485 869 1073 3099 current	90 0 106 0 1093 1588 828 1107 3225 history1	101 0 109 <1 991 1489 885 1104 2850 history2
Soot % % *ASTM D7844 0.5 0.5 0.5 Nitration Abs/cm *ASTM D7624 >20 13.2 13.2 12.8 Sulfation Abs/.1mm *ASTM D7415 >30 28.0 27.9 27.5 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 30.2 30.7 29.1	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 limit/base >20 >158	99 0 112 <1 975 1485 869 1073 3099 current 7	90 0 106 0 1093 1588 828 1107 3225 history1 5 <1	101 0 109 <1 991 1489 885 1104 2850 history2 5
Nitration Abs/cm *ASTM D7624 >20 13.2 13.2 12.8 Sulfation Abs/.1mm *ASTM D7415 >30 28.0 27.9 27.5 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 30.2 30.7 29.1	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 limit/base >20 >158 >20	99 0 112 <1 975 1485 869 1073 3099 current 7 3	90 0 106 0 1093 1588 828 1107 3225 history1 5 <1 0	101 0 109 <1 991 1489 885 1104 2850 history2 5 2
Sulfation Abs/.1mm *ASTM D7415 >30 28.0 27.9 27.5 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 30.2 30.7 29.1	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	250 10 100 450 3000 1150 1350 4250 limit/base >20 >158 >20 >0.1	99 0 112 <1 975 1485 869 1073 3099 current 7 3 1 NEG	90 0 106 0 1093 1588 828 1107 3225 history1 5 <1 0 NEG	101 0 109 <1 991 1489 885 1104 2850 history2 5 2 0 NEG
Sulfation Abs/.1mm *ASTM D7415 >30 28.0 27.9 27.5 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 30.2 30.7 29.1	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D6304	250 10 100 450 3000 1150 1350 4250 limit/base >20 >158 >20 >0.1	99 0 112 <1 975 1485 869 1073 3099 current 7 3 1 NEG current	90 0 106 0 1093 1588 828 1107 3225 history1 5 <1 0 NEG history1	101 0 109 <1 991 1489 885 1104 2850 history2 5 2 0 NEG
Oxidation Abs/.1mm *ASTM D7414 >25 30.2 30.7 29.1	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D6304 method *ASTM D7844	250 10 100 450 3000 1150 1350 4250 limit/base >20 >158 >20 >0.1 limit/base	99 0 112 <1 975 1485 869 1073 3099 current 7 3 1 NEG current 0.5	90 0 106 0 1093 1588 828 1107 3225 history1 5 <1 0 NEG history1 0.5	101 0 109 <1 991 1489 885 1104 2850 history2 5 2 0 NEG history2
	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D6304 method *ASTM D7844 *ASTM D7844	250 10 100 450 3000 1150 1350 4250 limit/base >20 >158 >20 >0.1 limit/base	99 0 112 <1 975 1485 869 1073 3099 current 7 3 1 NEG current 0.5 13.2	90 0 106 0 1093 1588 828 1107 3225 history1 5 <1 0 NEG history1 0.5 13.2	101 0 109 <1 991 1489 885 1104 2850 history2 5 2 0 NEG history2 0.5 12.8
	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D6304 method *ASTM D7844 *ASTM D7624 *ASTM D76145	250 10 100 450 3000 1150 1350 4250 limit/base >20 >158 >20 >0.1 limit/base	99 0 112 <1 975 1485 869 1073 3099 current 7 3 1 NEG current 0.5 13.2 28.0	90 0 106 0 1093 1588 828 1107 3225 history1 5 <1 0 NEG history1 0.5 13.2 27.9	101 0 109 <1 991 1489 885 1104 2850 history2 5 2 0 NEG history2 0.5 12.8 27.5
	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water INFRA-RED Soot % Nitration Sulfation FLUID DEGRADA	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D6304 method *ASTM D7844 *ASTM D7844 *ASTM D7624 *ASTM D7415 method	250 10 100 450 3000 1150 1350 4250 limit/base >20 >158 >20 >0.1 limit/base	99 0 112 <1 975 1485 869 1073 3099 current 7 3 1 NEG current 0.5 13.2 28.0 current	90 0 106 0 1093 1588 828 1107 3225 history1 5 <1 0 NEG history1 0.5 13.2 27.9 history1	101 0 109 <1 991 1489 885 1104 2850 history2 5 2 0 NEG history2 0.5 12.8 27.5 history2

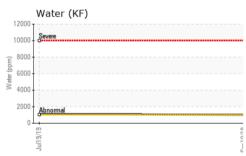


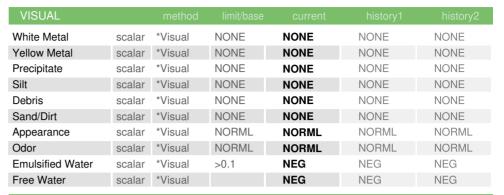
OIL ANALYSIS REPORT



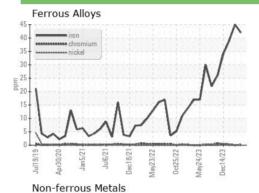


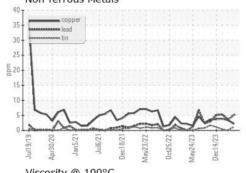


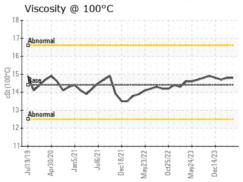


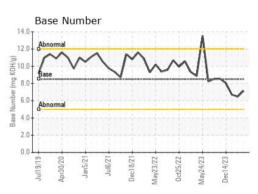


FLUID PROPER	RTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	14.4	14.8	14.8	14.7













Certificate 12367

Laboratory Sample No.

: WC0805418 Lab Number : 06157860 Unique Number : 10993283

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

Received **Tested** Diagnosed

: 23 Apr 2024 : 25 Apr 2024 : 25 Apr 2024 - Sean Felton

101 12TH ST CATLETTSBURG, KY US 41169

Contact: M/V CANTON mvcanton@marathonpetroleum.com

MARATHON PETROLEUM CO.

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.

Test Package : IND 2 (Additional Tests: KF)

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

T:

F: