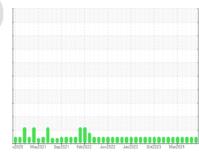


OIL ANALYSIS REPORT

Area Speedway [Speedway] Oil - Aft Genset

Aft Genset

MOBIL 15W40 (8 GAL)



Sample Rating Trend



Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment:

Top Up Amount: 1 GAL)

All component wear rates are normal for time on oil.

Contamination

There is no indication of any contamination in the

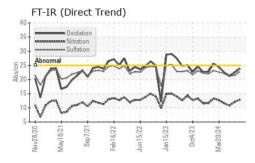
Fluid Condition

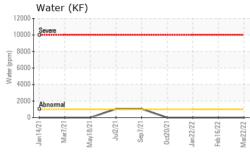
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

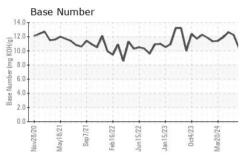
SAMPLE INFORMATION	CAMPLE INFORM	AATION.	mathad	limit/base	ourrent.	historyt	hiotom/2
Sample Date Client Info 08 Jul 2024 11 Jun 2024 15 May 2024 Machine Age hrs Client Info 13272 12914 12523 Oil Age hrs Client Info 13205 12547 12496 Oil Changed Client Info Oil Added NORMAL NORMAL NORMAL NORMAL CONTAMINATION method limit/bass current history1 history2 Fuel WC Method NEG NEG NEG NEG WEAR METALS method limit/bass current history1 history2 Iron ppm ASTM 55185m >40 <1.0		MATION	method	imivoase		history1	history2
Machine Age hrs Client Info 13272 12914 12523 Oil Age hrs Client Info 13205 12547 12496 Oil Changed Client Info Oil Added Filtered Oil Added Filtered Oil Added Sample Status MoRMAL NORMAL NORMAL NORMAL NORMAL CONTAMINATION method Imitibase current history1 history2 Fuel WC Method >4.0 <1.0 <1.0 <1.0 <1.0 Glycol WC Method NEG NEG NEG NEG NEG WEAR METALS mothod limit/bass current history1 history2 Iron ppm ASTM D5185m >50 38 23 29 Chromium ppm ASTM D5185m >20 <1 <1 <1 Iron ppm ASTM D5185m >20 <1 <0 <0 Aluminum ppm ASTM D5185m <							
Oil Age	•						,
Oil Changed Sample Status Client Info Oil Added NORMAL Filtered NORMAL NORMAL Oil Added NORMAL NORMAL CONTAMINATION method Imitibase current history1 history2 Fuel WC Method >4.0 <1.0 <1.0 <1.0 <1.0 Glycol WC Method NEG NEG NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5186m >50 38 23 29 Chromium ppm ASTM D5186m >50 38 23 29 Chromium ppm ASTM D5186m >20 <1 0 0 Silver ppm ASTM D5186m >5 0 <1 1 0 Silver ppm ASTM D5186m >50 0 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1							
NORMAL NORMAL NORMAL NORMAL	-	hrs					
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 >50 38 23 29 Chromium ppm ASTM D5185m >4 <1 <1 <1 Nickel ppm ASTM D5185m >2 0 <1 0 Silver ppm ASTM D5185m >2 0 <1 1 Aluminum ppm ASTM D5185m >12 <1 2 1 Lead ppm ASTM D5185m >17 0 0 <1 Copper ppm ASTM D5185m >15 0 0 0 Vanadium ppm ASTM D5185m 0 0 0 <t< th=""><th></th><th></th><th>Client Info</th><th></th><th></th><th></th><th></th></t<>			Client Info				
Fuel	Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS	CONTAMINATION	N	method	limit/base	current	history1	history2
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 38 23 29 Chromium ppm ASTM D5185m >4 <1 <1 <1 Nickel ppm ASTM D5185m >2 0 <1 0 Titanium ppm ASTM D5185m >5 0 0 <1 Aluminum ppm ASTM D5185m >17 0 0 <1 Lead ppm ASTM D5185m >17 0 0 <1 Lead ppm ASTM D5185m >70 <1 <1 <1 Lead ppm ASTM D5185m >15 0 0 <1 Copper ppm ASTM D5185m >15 0 0 0 Cadadium ppm ASTM D5185m 0 0 0 0 ADDTTVES method limit/base current history1 <t< 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></t<>	Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Iron	Glycol		WC Method		NEG	NEG	NEG
Chromium ppm ASTM D5185m >4 <1	WEAR METALS		method	limit/base	current	history1	history2
Nickel	Iron	ppm	ASTM D5185m	>50	38	23	29
Titanium	Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Stiver	Nickel	ppm	ASTM D5185m	>2	0	<1	0
Aluminum ppm ASTM D5185m >12 <1 2 1 Lead ppm ASTM D5185m >17 0 0 <1	Titanium	ppm	ASTM D5185m		0	0	0
Lead	Silver	ppm	ASTM D5185m	>5	0	0	<1
Copper ppm ASTM D5185m >70 <1 <1 <1 <1 Tin ppm ASTM D5185m >15 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 0 0 0 0 Maprice ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 0 0 0 0 0 Manganese ppm ASTM D5185m 1600 1570 1629 1629 1208 1295 1295 1296 1295 1295 1295 1295 1295 1295 1295 1295 1295 1295 1295 1295 1295 1296 1295 1296	Aluminum	ppm	ASTM D5185m	>12	<1	2	1
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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 3 10 4 Barium ppm ASTM D5185m 0 0 0 Molybdenum ppm ASTM D5185m 68 66 64 Manganese ppm ASTM D5185m 1600 1570 1629 Calcium ppm ASTM D5185m 1320 1208 1295 Phosphorus ppm ASTM D5185m 1154 1143 1172 Zinc ppm ASTM D5185m 3948 3952 4332 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 5 6 5 Sodium ppm ASTM D5185m >20 <	Copper	ppm	ASTM D5185m	>70	<1	<1	<1
Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 3 10 4 Barium ppm ASTM D5185m 0 0 0 Molybdenum ppm ASTM D5185m 68 66 64 Manganese ppm ASTM D5185m 1600 1570 1629 Calcium ppm ASTM D5185m 1320 1208 1295 Phosphorus ppm ASTM D5185m 1154 1143 1172 Zinc ppm ASTM D5185m 1438 1411 1538 Sulfur ppm ASTM D5185m 3948 3952 4332 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >118 14 11 8 Potassium ppm ASTM D5185m >20	Tin	ppm	ASTM D5185m	>15	0	0	0
ADDITIVES	Vanadium	ppm	ASTM D5185m		0	0	0
Boron	Cadmium	ppm	ASTM D5185m		0	0	0
Barium ppm ASTM D5185m 0 0 0 Molybdenum ppm ASTM D5185m 68 66 64 Manganese ppm ASTM D5185m <1 <1 <1 Magnesium ppm ASTM D5185m 1600 1570 1629 Calcium ppm ASTM D5185m 1320 1208 1295 Phosphorus ppm ASTM D5185m 1154 1143 1172 Zinc ppm ASTM D5185m 1438 1411 1538 Sulfur ppm ASTM D5185m 3948 3952 4332 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 5 6 5 Sodium ppm ASTM D5185m >118 14 11 8 Potassium ppm ASTM D5185m >20 <1 2 2 Water % ASTM D	ADDITIVES			11 1. //			
Molybdenum ppm ASTM D5185m 68 66 64 Manganese ppm ASTM D5185m <1	ADDITIVES		method	limit/base	current	history1	history2
Manganese ppm ASTM D5185m <1		ppm		limit/base			
Magnesium ppm ASTM D5185m 1600 1570 1629 Calcium ppm ASTM D5185m 1320 1208 1295 Phosphorus ppm ASTM D5185m 1154 1143 1172 Zinc ppm ASTM D5185m 1438 1411 1538 Sulfur ppm ASTM D5185m 3948 3952 4332 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 5 6 5 Sodium ppm ASTM D5185m >118 14 11 8 Potassium ppm ASTM D5185m >20 <1 2 2 Water % ASTM D6304 >0.1 NEG NEG NEG INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7624 >20 12.9 12.1 10.8 <	Boron		ASTM D5185m	limit/base	3	10	4
Calcium ppm ASTM D5185m 1320 1208 1295 Phosphorus ppm ASTM D5185m 1154 1143 1172 Zinc ppm ASTM D5185m 1438 1411 1538 Sulfur ppm ASTM D5185m 3948 3952 4332 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 5 6 5 Sodium ppm ASTM D5185m >118 14 11 8 Potassium ppm ASTM D5185m >20 <1 2 2 Water % ASTM D5185m >20 <1 2 2 Water % ASTM D5185m >20 <1 2 2 Water % ASTM D5185m >20 <1 NEG NEG INFRA-RED method limit/base current history1 history2	Boron Barium	ppm	ASTM D5185m ASTM D5185m	limit/base	3 0	10	4 0
Phosphorus ppm ASTM D5185m 1154 1143 1172 Zinc ppm ASTM D5185m 1438 1411 1538 Sulfur ppm ASTM D5185m 3948 3952 4332 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 5 6 5 Sodium ppm ASTM D5185m >118 14 11 8 Potassium ppm ASTM D5185m >20 <1 2 2 Water % ASTM D6185m >20 <1 2 2 Water % ASTM D6185m >20 <1 NEG NEG INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 0.3 0.2 0.2 Nitration Abs/:mm *ASTM D7415 >30 22.8 21.5 21.2	Boron Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	3 0 68	10 0 66	4 0 64
Zinc ppm ASTM D5185m 1438 1411 1538 Sulfur ppm ASTM D5185m 3948 3952 4332 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 5 6 5 Sodium ppm ASTM D5185m >20 <1 1 8 Potassium ppm ASTM D5185m >20 <1 2 2 Water % ASTM D6304 >0.1 NEG NEG NEG INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 0.3 0.2 0.2 Nitration Abs/cm *ASTM D7624 >20 12.9 12.1 10.8 Sulfation Abs/.1mm *ASTM D7415 >30 22.8 21.5 21.2 FLUID DEGRADATION method limit/base current <	Boron Barium Molybdenum Manganese	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	3 0 68 <1	10 0 66 <1	4 0 64 <1
Sulfur ppm ASTM D5185m 3948 3952 4332 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 5 6 5 Sodium ppm ASTM D5185m >118 14 11 8 Potassium ppm ASTM D5185m >20 <1 2 2 Water % ASTM D6304 >0.1 NEG NEG NEG INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 0.3 0.2 0.2 Nitration Abs/cm *ASTM D7624 >20 12.9 12.1 10.8 Sulfation Abs/.1mm *ASTM D7415 >30 22.8 21.5 21.2 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	limit/base	3 0 68 <1 1600	10 0 66 <1 1570	4 0 64 <1 1629
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 5 6 5 Sodium ppm ASTM D5185m >118 14 11 8 Potassium ppm ASTM D5185m >20 <1 2 2 Water % ASTM D6304 >0.1 NEG NEG NEG INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 0.3 0.2 0.2 Nitration Abs/cm *ASTM D7624 >20 12.9 12.1 10.8 Sulfation Abs/.1mm *ASTM D7415 >30 22.8 21.5 21.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 23.9 22.5 21.2	Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	3 0 68 <1 1600 1320	10 0 66 <1 1570 1208	4 0 64 <1 1629 1295
Silicon ppm ASTM D5185m >25 5 6 5 Sodium ppm ASTM D5185m >118 14 11 8 Potassium ppm ASTM D5185m >20 <1	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	limit/base	3 0 68 <1 1600 1320 1154	10 0 66 <1 1570 1208 1143	4 0 64 <1 1629 1295 1172
Sodium ppm ASTM D5185m >118 14 11 8 Potassium ppm ASTM D5185m >20 <1 2 2 Water % ASTM D6304 >0.1 NEG NEG NEG INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 0.3 0.2 0.2 Nitration Abs/cm *ASTM D7624 >20 12.9 12.1 10.8 Sulfation Abs/.1mm *ASTM D7415 >30 22.8 21.5 21.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 23.9 22.5 21.2	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	limit/base	3 0 68 <1 1600 1320 1154 1438	10 0 66 <1 1570 1208 1143 1411	4 0 64 <1 1629 1295 1172 1538
Potassium ppm ASTM D5185m >20 <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		3 0 68 <1 1600 1320 1154 1438 3948	10 0 66 <1 1570 1208 1143 1411 3952	4 0 64 <1 1629 1295 1172 1538 4332
Water % ASTM D6304 >0.1 NEG NEG NEG INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 0.3 0.2 0.2 Nitration Abs/cm *ASTM D7624 >20 12.9 12.1 10.8 Sulfation Abs/.1mm *ASTM D7415 >30 22.8 21.5 21.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 23.9 22.5 21.2	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base	3 0 68 <1 1600 1320 1154 1438 3948	10 0 66 <1 1570 1208 1143 1411 3952 history1	4 0 64 <1 1629 1295 1172 1538 4332 history2
INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 0.3 0.2 0.2 Nitration Abs/cm *ASTM D7624 >20 12.9 12.1 10.8 Sulfation Abs/.1mm *ASTM D7415 >30 22.8 21.5 21.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 23.9 22.5 21.2	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base	3 0 68 <1 1600 1320 1154 1438 3948 current	10 0 66 <1 1570 1208 1143 1411 3952 history1	4 0 64 <1 1629 1295 1172 1538 4332 history2
Soot % % *ASTM D7844 0.3 0.2 0.2 Nitration Abs/cm *ASTM D7624 >20 12.9 12.1 10.8 Sulfation Abs/.1mm *ASTM D7415 >30 22.8 21.5 21.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 23.9 22.5 21.2	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base >25 >118	3 0 68 <1 1600 1320 1154 1438 3948 current 5	10 0 66 <1 1570 1208 1143 1411 3952 history1 6 11	4 0 64 <1 1629 1295 1172 1538 4332 history2 5
Nitration Abs/cm *ASTM D7624 >20 12.9 12.1 10.8 Sulfation Abs/.1mm *ASTM D7415 >30 22.8 21.5 21.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 23.9 22.5 21.2	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base >25 >118 >20	3 0 68 <1 1600 1320 1154 1438 3948 current 5 14	10 0 66 <1 1570 1208 1143 1411 3952 history1 6 11 2	4 0 64 <1 1629 1295 1172 1538 4332 history2 5 8 2
Sulfation Abs/.1mm *ASTM D7415 >30 22.8 21.5 21.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 23.9 22.5 21.2	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	limit/base >25 >118 >20 >0.1	3 0 68 <1 1600 1320 1154 1438 3948 current 5 14 <1 NEG	10 0 66 <1 1570 1208 1143 1411 3952 history1 6 11 2 NEG	4 0 64 <1 1629 1295 1172 1538 4332 history2 5 8 2 NEG
Sulfation Abs/.1mm *ASTM D7415 >30 22.8 21.5 21.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 23.9 22.5 21.2	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	limit/base >25 >118 >20 >0.1	3 0 68 <1 1600 1320 1154 1438 3948 current 5 14 <1 NEG	10 0 66 <1 1570 1208 1143 1411 3952 history1 6 11 2 NEG history1	4 0 64 <1 1629 1295 1172 1538 4332 history2 5 8 2 NEG
Oxidation	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	limit/base >25 >118 >20 >0.1 limit/base	3 0 68 <1 1600 1320 1154 1438 3948 current 5 14 <1 NEG	10 0 66 <1 1570 1208 1143 1411 3952 history1 6 11 2 NEG history1 0.2	4 0 64 <1 1629 1295 1172 1538 4332 history2 5 8 2 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	limit/base >25 >118 >20 >0.1 limit/base >20	3 0 68 <1 1600 1320 1154 1438 3948 current 5 14 <1 NEG current 0.3 12.9	10 0 66 <1 1570 1208 1143 1411 3952 history1 6 11 2 NEG history1 0.2 12.1	4 0 64 <1 1629 1295 1172 1538 4332 history2 5 8 2 NEG history2 0.2 10.8
	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	limit/base >25 >118 >20 >0.1 limit/base >20 >30	3 0 68 <1 1600 1320 1154 1438 3948 current 5 14 <1 NEG current 0.3 12.9 22.8	10 0 66 <1 1570 1208 1143 1411 3952 history1 6 11 2 NEG history1 0.2 12.1 21.5	4 0 64 <1 1629 1295 1172 1538 4332 history2 5 8 2 NEG history2 0.2 10.8 21.2
	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 D7624 *ASTM D7415 method	limit/base >25 >118 >20 >0.1 limit/base >20 >30 limit/base	3 0 68 <1 1600 1320 1154 1438 3948 current 5 14 <1 NEG current 0.3 12.9 22.8	10 0 66 <1 1570 1208 1143 1411 3952 history1 6 11 2 NEG history1 0.2 12.1 21.5 history1	4 0 64 <1 1629 1295 1172 1538 4332 history2 5 8 2 NEG history2 0.2 10.8 21.2 history2

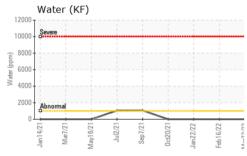


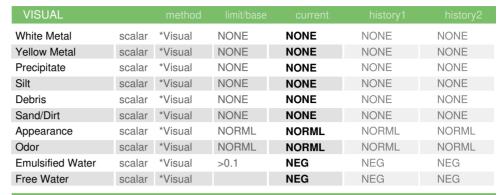
OIL ANALYSIS REPORT



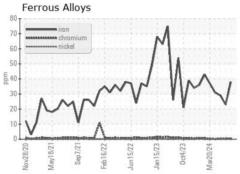


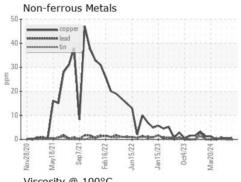


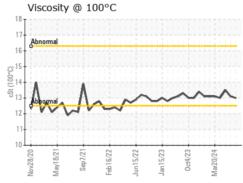


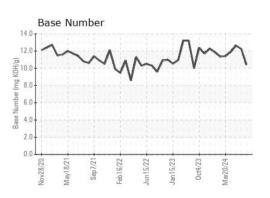


FLUID PROPERTIES		method			history2
Visc @ 100°C	cSt	ASTM D445	13.0	13.1	13.5













Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0874687 Lab Number : 06236291

Unique Number : 11125125

Received **Tested** Diagnosed

: 15 Jul 2024 : 16 Jul 2024 : 16 Jul 2024 - Sean Felton

101 12TH ST CATLETTSBURG, KY US 41169 Contact: CORY GUMBERT

Test Package : IND 2 (Additional Tests: KF) To discuss this sample report, contact Customer Service at 1-800-237-1369.

cagumbert@marathonpetroleum.com T: (606)585-3950

* - 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)

MARATHON PETROLEUM CO.

F: x: