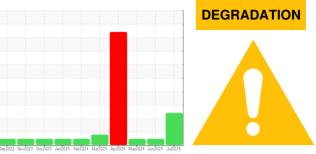


OIL ANALYSIS REPORT

SAMPLE INFORMATION method

Sample Rating Trend

limit/base



history1

history2

current

Machine Id

Smith Ridge 1

Natural Gas Engine

Fluid CITGO PACEMAKER GAS ENGIN 1700 SERIES 40W (--- GAL)

DIAGNOSIS

Recommendation

We recommend that you drain the oil and perform a filter service on this component if not already done. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

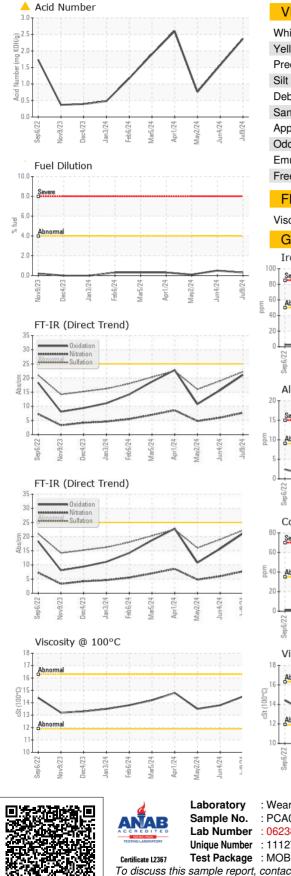
Fluid Condition

The BN level is low. The AN level is at the top-end of the recommended limit. The oil is no longer serviceable.

Sample Date I Client Info 99 Jul 2024 04 Jun 2024 02 May 2024 Machine Age hrs Client Info 187361 187336 186556 Oil Age hrs Client Info 187381 780 237 Oil Changed Client Info Not Changed Not Changed Not Changed Nort Changed Sample Status I Nethod >0.1 NEG NEG NEG Water WC Method >0.1 NEG NEG NEG NEG Nickel ppm ASTM051850 >4 <1 <1 <1 <1 Nickel ppm ASTM051850 >20 0 0 <1 1 Nickel ppm ASTM051850 >30 0 0 <1 1 1 Silver ppm ASTM051850 >30 22 21 14 11 1 Copper ppm ASTM051850 >30 20 <1 1 1	SAMPLE INFORM		method	limit/base	current	nistory i	history2
Machine Age Oil Age Oil Age Oil ChangedNisClient Info18816118736186556Oil Changed Sample StatusClient InfoNot Changed ABNORMALONE MAL NORMALNORMAL NORMAL <t< th=""><th>Sample Number</th><th></th><th>Client Info</th><th></th><th>PCA0117266</th><th>PCA0117262</th><th>PCA0117195</th></t<>	Sample Number		Client Info		PCA0117266	PCA0117262	PCA0117195
Oil Age hrs Client Info 187381 780 237 Oil Changed Client Info Not Changd Not Changd Changed Changed Sample Status Image Image Not Changd Not Changd Not Changd Nor Changd Water WC Method >0.1 NEG NEG NEG Water WC Method >0.1 NEG NEG NEG Chromium ppm ASTM 05185m >50 6 6 3 Chromium ppm ASTM 05185m >4 <1	Sample Date		Client Info		09 Jul 2024	04 Jun 2024	02 May 2024
Oli Changed Client Info Not Changd ABNORMAL Not Changd NORMAL Changed NORMAL Changed NORMAL CONTAMINATION method limit/base current history1 history2 Water WC Method >0.1 NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185n >50 6 6 3 Chromium ppm ASTM D5185n >2 0 0 41 Nickel ppm ASTM D5185n >2 0 0 41 Silver ppm ASTM D5185n >3 0 0 0 Itanium ppm ASTM D5185n >3 2 2 1 Copper ppm ASTM D5185n >3 2 1 1 Cadmium ppm ASTM D5185n >4 7 5 1 Cadmium ppm ASTM D5185n >4 7 5 1 ASTM D5185n >4 7 5 1 1 1 Vanadium ppm ASTM D5185n <1	Machine Age	hrs	Client Info		188161	187336	186556
Sample Status Method Imit/base Current NoRMAL NORMAL CONTAMINATION method Imit/base current history1 history2 Water WC Method >0.1 NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185n >50 6 6 3 Iron ppm ASTM D5185n >4 <1	Oil Age	hrs	Client Info		187381	780	237
CONTAMINATION method limit/base current history1 history2 Water WC Method >0.1 NEG NEG NEG Water WC Method >0.1 NEG NEG NEG Water ppm ASTM 05186m >50 6 6 3 Chromium ppm ASTM 05186m >4 <1	Oil Changed		Client Info		Not Changd	Not Changd	Changed
Water WC Method >0.1 NEG NEG NEG WEAR METALS method imit/base current history1 history2 Iron ppm ASTM D5185m >50 6 6 3 Chromium ppm ASTM D5185m >22 0 0 <1	Sample Status				ABNORMAL	NORMAL	NORMAL
Water WC Method >0.1 NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 6 6 3 Chromium ppm ASTM D5185m >2 0 0 <1 Nickel ppm ASTM D5185m >2 0 0 <1 Silver ppm ASTM D5185m >3 0 0 <1 Aduminum ppm ASTM D5185m >30 25 1.4 11 Copper ppm ASTM D5185m >30 2 1 1 1 Vanadium ppm ASTM D5185m >4 <1 1	CONTAMINATIO		method	limit/base	current	history1	history2
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 6 6 3 Chromium ppm ASTM D5185m >4 <1 <1 <1 Nickel ppm ASTM D5185m >2 0 0 <1 Titanium ppm ASTM D5185m >3 0 0 0 Aluminum ppm ASTM D5185m >3 0 0 0 Lead ppm ASTM D5185m >35 4 7 5 Tin ppm ASTM D5185m >35 4 7 5 Tin ppm ASTM D5185m <4 1 1 1 Cadmium ppm ASTM D5185m <0 0 <1 0 0 Boron ppm ASTM D5185m <1 0 0 0 0 Magnesium ppm ASTM D5185m 100 12 <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>							
Iron ppm ASTM D5185m >50 6 6 3 Chromium ppm ASTM D5185m >4 <1 <1 <1 Nickel ppm ASTM D5185m >2 0 0 <1 Silver ppm ASTM D5185m >3 0 0 0 Aluminum ppm ASTM D5185m >30 25 14 11 Copper ppm ASTM D5185m >30 25 14 11 Cadmium ppm ASTM D5185m >30 25 14 11 Cadmium ppm ASTM D5185m >4 <1 1 1 Vanadium ppm ASTM D5185m 0 0 1 Cadmium ppm ASTM D5185m 1 0 0 Barium ppm ASTM D5185m 10 12 8 Calcium ppm ASTM D5185m 10 1506 1589			WC Method	-	NEG	NEG	NEG
Chromium ppm ASTM D5185m >4 <1	WEAR METALS	6	method	limit/base	current	history1	history2
Nickel ppm ASTM D5185m >2 0 0 <1 Titanium ppm ASTM D5185m <1	Iron	ppm	ASTM D5185m	>50	6	6	3
Titanium ppm ASTM D5185m <1 0 <1 Silver ppm ASTM D5185m >3 0 0 0 Aluminum ppm ASTM D5185m >30 25 14 11 Copper ppm ASTM D5185m >30 25 14 11 Copper ppm ASTM D5185m >4 <1	Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Silver ppm ASTM D5185m >3 0 0 0 Aluminum ppm ASTM D5185m >9 2 2 <1 Lead ppm ASTM D5185m >30 25 14 11 Copper ppm ASTM D5185m >35 4 7 5 Tin ppm ASTM D5185m >4 <1 1 1 Vanadium ppm ASTM D5185m 0 0 <1 1 Cadmium ppm ASTM D5185m 0 0 0 <1 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 0 0 Magnese ppm ASTM D5185m 0 2 <1 Magnesium ppm ASTM D5185m 10 12 8 Calcium ppm ASTM D5185m 320 349 303 Sulfar	Nickel	ppm	ASTM D5185m	>2	0	0	<1
Atuminum ppm ASTM D5185m >9 2 2 <1 Lead ppm ASTM D5185m >30 25 14 11 Copper ppm ASTM D5185m >35 4 7 5 Tin ppm ASTM D5185m >4 <1	Titanium	ppm	ASTM D5185m		<1	0	<1
Lead ppm ASTM D5185m >30 25 14 11 Copper ppm ASTM D5185m >35 4 7 5 Tin ppm ASTM D5185m >4 <1	Silver	ppm	ASTM D5185m	>3	0	0	0
Copper ppm ASTM D5185m >35 4 7 5 Tin ppm ASTM D5185m >4 <1	Aluminum	ppm	ASTM D5185m	>9	2	2	<1
Tin ppm ASTM D5185m >4 <1 1 Vanadium ppm ASTM D5185m 0 0 <1 Cadmium ppm ASTM D5185m 0 0 <1 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 0 0 Barium ppm ASTM D5185m 0 0 0 0 Manganese ppm ASTM D5185m 1 4 2 Magnesium ppm ASTM D5185m 10 12 8 Calcium ppm ASTM D5185m 320 349 303 Zinc ppm ASTM D5185m 320 349 303 Sulfur ppm ASTM D5185m 2360 3075 2867 CONTAMINANTS method limit/base current history1 history2 Sulfur ppm ASTM D5185m >20 2 <th>Lead</th> <td>ppm</td> <td>ASTM D5185m</td> <td>>30</td> <th>25</th> <td>14</td> <td>11</td>	Lead	ppm	ASTM D5185m	>30	25	14	11
Vanadium ppm ASTM D5185m <1 0 <1 Cadmium ppm ASTM D5185m 0 0 <1 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m <1 0 0 Barium ppm ASTM D5185m 0 0 0 Manganese ppm ASTM D5185m 0 2 1 Magnesium ppm ASTM D5185m 0 2 1 Galcium ppm ASTM D5185m 10 12 8 Calcium ppm ASTM D5185m 320 349 303 Zinc ppm ASTM D5185m 320 349 303 Sulfur ppm ASTM D5185m 2360 3075 2867 CONTAMINANTS method limit/base current history1 history2 Sulfur ppm ASTM D5185m >20 2 5 2	Copper	ppm	ASTM D5185m	>35	4	7	5
Cadmium ppm ASTM D5185m 0 0 <1 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m <1 0 0 0 Barium ppm ASTM D5185m 0 0 0 0 Maganese ppm ASTM D5185m 1 44.2 2 Magnesium ppm ASTM D5185m 10 12 8 Calcium ppm ASTM D5185m 1506 1589 1366 Phosphorus ppm ASTM D5185m 320 349 303 Zinc ppm ASTM D5185m 32360 3075 2867 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >+100 2 3 2 2 Sodium ppm ASTM D5185m >20 2 5 2 2 Fuel <th>Tin</th> <td>ppm</td> <td>ASTM D5185m</td> <td>>4</td> <th><1</th> <td>1</td> <td>1</td>	Tin	ppm	ASTM D5185m	>4	<1	1	1
ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m <1	Vanadium	ppm	ASTM D5185m		<1	0	<1
Boron ppm ASTM D5185m <1 0 0 Barium ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 1 4 2 Manganese ppm ASTM D5185m 0 2 <1	Cadmium	ppm	ASTM D5185m		0	0	<1
Barium pm ASTM D5185m 0 0 0 Molybdenum ppm ASTM D5185m 1 4 2 Manganese ppm ASTM D5185m 0 2 <1 Magnesium ppm ASTM D5185m 10 12 8 Calcium ppm ASTM D5185m 1506 1589 1366 Phosphorus ppm ASTM D5185m 320 349 303 Zinc ppm ASTM D5185m 3260 3075 2867 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >+100 2 3 2 Sodium ppm ASTM D5185m >20 2 5 2 Fuel % ASTM D5185m >20 2 5 2 Fuel % ASTM D5185m >20 2 5 2 Fuel % ASTM D5185m >20 <th>ADDITIVES</th> <th></th> <th>method</th> <th>limit/base</th> <th>current</th> <th>history1</th> <th>history2</th>	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m 1 4 2 Manganese ppm ASTM D5185m 0 2 <1	Boron	ppm	ASTM D5185m		<1	0	0
Manganese ppm ASTM D5185m 0 2 <1 Magnesium ppm ASTM D5185m 10 12 8 Calcium ppm ASTM D5185m 10 12 8 Phosphorus ppm ASTM D5185m 320 349 303 Zinc ppm ASTM D5185m 320 349 363 Sulfur ppm ASTM D5185m 2360 3075 2867 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >+100 2 3 2 Sodium ppm ASTM D5185m >+100 2 3 2 Sodium ppm ASTM D5185m >20 2 5 2 Fuel % ASTM D5185m >20 2 5 2 Fuel % ASTM D5185m >20 2 5 0.1 INFRA-RED method limit/base current history1 history2 Soot % % <td< td=""><th>Barium</th><td>ppm</td><td>ASTM D5185m</td><td></td><th>0</th><td>0</td><td>0</td></td<>	Barium	ppm	ASTM D5185m		0	0	0
Magnesium ppm ASTM D5185m 10 12 8 Calcium ppm ASTM D5185m 1506 1589 1366 Phosphorus ppm ASTM D5185m 320 349 303 Zinc ppm ASTM D5185m 320 349 363 Sulfur ppm ASTM D5185m 418 435 363 Sulfur ppm ASTM D5185m 2360 3075 2867 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >+100 2 3 2 Sodium ppm ASTM D5185m >20 2 5 2 Fuel % ASTM D5185m >20 2 5 2 Fuel % ASTM D5185m >20 2 5 0.1 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7624 >20 7.7 6.0 4.8 Sulfation Ab	Molybdenum	ppm	ASTM D5185m		1	4	2
Calcium ppm ASTM D5185m 1506 1589 1366 Phosphorus ppm ASTM D5185m 320 349 303 Zinc ppm ASTM D5185m 320 349 303 Sulfur ppm ASTM D5185m 418 435 363 Sulfur ppm ASTM D5185m 2360 3075 2867 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >+100 2 3 2 Sodium ppm ASTM D5185m >+100 2 3 0 Potassium ppm ASTM D5185m >20 2 5 2 Fuel % ASTM D3524 >4.0 0.3 0.5 0.1 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 0 0.1 0 Nitration Abs/.1mm	Manganese	ppm	ASTM D5185m		0	2	<1
Phosphorus ppm ASTM D5185m 320 349 303 Zinc ppm ASTM D5185m 418 435 363 Sulfur ppm ASTM D5185m 2360 3075 2867 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >+100 2 3 2 Sodium ppm ASTM D5185m >+100 2 3 2 Sodium ppm ASTM D5185m >20 2 5 2 Fuel % ASTM D5185m >20 2 5 0.1 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7624 >20 7.7 6.0 4.8 Sulfation Abs/.tmm *ASTM D7415 >30 22.2 19.0 16.0 FLUID DEGRADATION method limit/base current history1 history2	Magnesium	ppm	ASTM D5185m		10	12	8
Zinc ppm ASTM D5185m 418 435 363 Sulfur ppm ASTM D5185m 2360 3075 2867 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >+100 2 3 2 Sodium ppm ASTM D5185m >+100 2 3 2 Sodium ppm ASTM D5185m >+20 2 5 2 Fuel % ASTM D5185m >20 2 5 2 Fuel % ASTM D5185 >20 2 5 0.1 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7624 >20 7.7 6.0 4.8 Sulfation Abs/.mm *ASTM D7415 >30 22.2 19.0 16.0 FLUID DEGRADATION method limit/base current history1 his	Calcium	ppm	ASTM D5185m		1506	1589	1366
Sulfur ppm ASTM D5185m 2360 3075 2867 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >+100 2 3 2 Sodium ppm ASTM D5185m >+100 2 3 2 Sodium ppm ASTM D5185m >20 2 5 2 Fuel % ASTM D5185m >20 2 5 2 Fuel % ASTM D5185m >20 2 5 2 Soot % % ASTM D7844 0 0.3 0.5 0.1 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7624 >20 7.7 6.0 4.8 Sulfation Abs/.mm *ASTM D7415 >30 22.2 19.0 16.0 FLUID DEGRADATION method limit/base current history1	Phosphorus	ppm	ASTM D5185m		320	349	303
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >+100 2 3 2 Sodium ppm ASTM D5185m >+100 2 3 0 Potassium ppm ASTM D5185m >20 2 5 2 Fuel % ASTM D5185m >20 2 5 2 Fuel % ASTM D5185m >20 2 5 0.1 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 0 0.1 0 Nitration Abs/cm *ASTM D7624 >20 7.7 6.0 4.8 Sulfation Abs/.1mm *ASTM D7415 >30 22.2 19.0 16.0 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 21.1 </td <th>Zinc</th> <td>ppm</td> <td>ASTM D5185m</td> <td></td> <th>418</th> <td>435</td> <td>363</td>	Zinc	ppm	ASTM D5185m		418	435	363
Silicon ppm ASTM D5185m >+100 2 3 2 Sodium ppm ASTM D5185m >+100 2 3 0 Potassium ppm ASTM D5185m >20 2 5 2 Fuel % ASTM D5185m >20 2 5 2 Fuel % ASTM D3524 >4.0 0.3 0.5 0.1 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7624 >20 7.7 6.0 4.8 Sulfation Abs/cm *ASTM D7415 >30 22.2 19.0 16.0 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/1mm *ASTM D7414 >25 21.1 15.7 10.8 Acid Number (AN) mg KOHg ASTM D8045 \blacktriangle 2.37 1.57 0.76	Sulfur	ppm	ASTM D5185m		2360	3075	2867
Sodium ppm ASTM D5185m <1	CONTAMINANT	S	method	limit/base	current	history1	history2
Sodium ppm ASTM D5185m <1 3 0 Potassium ppm ASTM D5185m<>20 2 5 2 Fuel % ASTM D5185m<>20 2 5 2 Fuel % ASTM D5185m<>20 2 5 2 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 0 0.1 0 Nitration Abs/cm *ASTM D7624 >20 7.7 6.0 4.8 Sulfation Abs/.1mm *ASTM D7415 >30 22.2 19.0 16.0 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 21.1 15.7 10.8 Acid Number (AN) mg KOHg ASTM D8045 A 2.37 1.57 0.76	Silicon	ppm	ASTM D5185m	>+100	2	3	2
Fuel % ASTM D3524 >4.0 0.3 0.5 0.1 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 0 0.1 0 Nitration Abs/cm *ASTM D7624 >20 7.7 6.0 4.8 Sulfation Abs/.1mm *ASTM D7415 >30 22.2 19.0 16.0 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 21.1 15.7 10.8 Acid Number (AN) mg KOH/g ASTM D8045 A 2.37 1.57 0.76			ASTM D5185m		<1	3	0
Fuel % ASTM D3524 >4.0 0.3 0.5 0.1 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 0 0.1 0 Nitration Abs/cm *ASTM D7624 >20 7.7 6.0 4.8 Sulfation Abs/.1mm *ASTM D7415 >30 22.2 19.0 16.0 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 21.1 15.7 10.8 Acid Number (AN) mg KOHg ASTM D8045 A 2.37 1.57 0.76	Potassium	ppm	ASTM D5185m	>20	2	5	2
Soot % % *ASTM D7844 0 0.1 0 Nitration Abs/cm *ASTM D7624 >20 7.7 6.0 4.8 Sulfation Abs/.1mm *ASTM D7415 >30 22.2 19.0 16.0 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 21.1 15.7 10.8 Acid Number (AN) mg KOH/g ASTM D8045 A 2.37 1.57 0.76			ASTM D3524	>4.0	0.3	0.5	0.1
Nitration Abs/cm *ASTM D7624 >20 7.7 6.0 4.8 Sulfation Abs/.1mm *ASTM D7415 >30 22.2 19.0 16.0 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 21.1 15.7 10.8 Acid Number (AN) mg KOH/g ASTM D8045 A 2.37 1.57 0.76	INFRA-RED		method	limit/base	current	history1	history2
Sulfation Abs/.1mm *ASTM D7415 >30 22.2 19.0 16.0 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 21.1 15.7 10.8 Acid Number (AN) mg KOH/g ASTM D8045 Action 2.37 1.57 0.76	Soot %	%	*ASTM D7844		0	0.1	0
Sulfation Abs/.1mm *ASTM D7415 >30 22.2 19.0 16.0 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 21.1 15.7 10.8 Acid Number (AN) mg KOH/g ASTM D8045 Action 2.37 1.57 0.76	Nitration	Abs/cm	*ASTM D7624	>20	7.7	6.0	4.8
Oxidation Abs/.1mm *ASTM D7414 >25 21.1 15.7 10.8 Acid Number (AN) mg KOH/g ASTM D8045 \triangle 2.37 1.57 0.76			*ASTM D7415	>30	22.2	19.0	16.0
Acid Number (AN) mg KOH/g ASTM D8045 🔺 2.37 1.57 0.76	FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g ASTM D8045 🔺 2.37 1.57 0.76	Oxidation	Abs/.1mm	*ASTM D7414	>25	21.1	15.7	10.8
			ASTM D8045			1.57	0.76
Base Number (BN) mg KOH/g ASTM D2896 ▲ 2.13 2.82 3.43	()	v v					



OIL ANALYSIS REPORT



	VISUAL		method	limit/base	current	history1	history2
A	White Metal	scalar	*Visual	NONE	NONE	LIGHT	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
v	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Mar5/24 Apr1/24 May2/24 Jun4/24 Jun4/24	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
May Jun Jur	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
	Free Water	scalar	*Visual		NEG	NEG	NEG
	FLUID PROPE	RTIES	method	limit/base	current	history1	history2
	Visc @ 100°C	cSt	ASTM D445		14.5	13.8	13.5
	GRAPHS	001				10.0	10.0
	Iron (ppm)				Lead (ppm)		
	100 T			10			
Apr1/24 - May2/24 - Jun4/24 - Jul9/24 -	80 - Severe	1		8	•	/	\
Apr1/24 May2/24 Jun4/24 Jul9/24	E 60 Abnormal			е ⁶	Severe	<u></u>	<u>\</u>
	Abnormal 40	1 1		ed 4	Abnormal		
	20 -			2			1
	53	24	24	24		24	24
1	Sep6/22 Nov9/23 Dec4/23 Jan3/24	Feb6/24 Mar5/24	Apr1/24 May2/24	Jul9/24	Sep6/22 Nov9/23 Dec4/23	Jan3/24 Feb6/24 Mar5/24 Aor1/24	May2/24 Jun4/24
	Aluminum (ppm)		2		Chromium (pp		~ ,
	²⁰ T		1 1 1			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
And the other designment of th	15 Severe				Severe		
<u></u>	E 10 - Abnormal			ud d	Abnormal		
Mar5/24 Apr1/24 May2/24 Jun4/24 Jun4/24							
M A M P	5-	1			2		
		4	4			4	4
	Sep6/22 Nov9/23 Dec4/23 Jan3/24	Feb6/24 Mar5/24	Apr1/24 May2/24	Jul9/24	Sep 6/22 Nov9/23 Dec4/23	Jan3/24 Feb6/24 Mar5/24 Aor1/24	May2/24 Jun4/24
	Copper (ppm)		2		Silicon (ppm)		2 7
1	⁸⁰ Severe	+		20	Sincon (ppin)	·····	
	60	1 1	1 1 1	15			
	E 40 - Abnormal			툍 10	Abnormal		
and a second sec	The second second						
(24 - (24 - (24 -	20			51			
Mar5/24 Apr1/24 May2/24 Jun4/24	123	124 -	/24 - /24 -	/24	723	/24 /24 /24	/24
	Sep 6/22 Nov9/23 Dec4/23 Jan 3/24	Feb6/24 Mar5/24	Apr1/24 May2/24	Jul9/24	Sep6/22 Nov9/23 Dec4/23	Jan 3/24 Feb 6/24 Mar5/24 Aor1/24	May2/24 Jun4/24
	Viscosity @ 100°C			_	Base Number		
	Abnormal			(B) H 5			1 I I I
~	0+			(B),HOX Bay North Bays Number Base Number			
\sim	14-100-C)		~	ja 3.			\wedge
	성 12 Abnormal			тр 2.	•	1	
	10			2 1. 0.			
* * * * *		Feb6/24 + Mar5/24 -	Apr1/24 - May2/24 -			Jan3/24 + Feb6/24 + Mar5/24 +	/ay2/24 -
Mar5/24 Apr1/24 May2/24 Jun4/24	Sepf Nov: Jan.j	Feb 6/24 Mar5/24	Apr1/24 May2/24	Jul	Sepl Nov!	Jan. Feb(Mar5	May2/24 Jun4/24
A A A A							
Laboratory	: WearCheck USA - 501	Madiso	n Ave., Carv	. NC 27513	ENFRVF	ST OPERATING	- SMITH RIDO
Sample No.	: PCA0117266	Recei		5 Jul 2024			SMITH RIDG
Lab Number		Teste		7 Jul 2024		I	MCCLURE, V
Unique Number		Diagn		Jul 2024 - Do	ug Bogart	A · · · A	US 2426
te L2367 Test Package	: MOB 2 (Additional Te	sts: ⊢uel	Ullution. Pe	cent⊢uel)		Contact: Se	ervice Manag

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

Report Id: ENEMCCSR [WUSCAR] 06238557 (Generated: 07/18/2024 12:26:56) Rev: 1

Submitted By: Adam Kimberlin Page 2 of 2

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