

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id Grand Blanc CAT 4 GBLM04BE

Biogas Engine Fluid

CHEVRON HDAX 9500 GAS

Fuel WC Method >4.0 <1.0							
Sample Number Client Info WC0905738 WC0905743 WC095743 WC08156 C0 Changed Not Changed			method	23 Jun2023 Aug2023	Sep2023 Nov2023 Jan2024	Feb2024	history?
Sample Date Client Info 03 Apr 2024 25 Mar 2024 12 Mar 2024 Machine Age hrs Client Info 68701 68503 68245 Dil Age hrs Client Info 0 200 950 Dil Changed Client Info N/A Changed Not Changed CONTAMINATION method limit/base current history1 history2 Contramino WC Method >.11 NEG NEG NEG Slycol WC Method >.11 NEG NEG NEG Vexter WC Method >.11 NEG NEG NEG Slycol WC Method >.15 3 2 8 Chromium ppm ASTM 05185m >4 0 0 0 Titanium ppm ASTM 05185m >4 0 0 0 Normium ppm ASTM 05185m >6 2 1 2 2 Stread ppm ASTM 051							
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Sample Status NORMAL NORMAL NORMAL SEVERE CONTAMINATION method limit/base current history1 history2 Fuel WC Method >4.0 <1.0	-	1110			-		
Fuel WC Method >4.0 <1.0 <1.0 <1.0 <1.0 Water WC Method >.11 NEG NEG NEG Slycol WC Method NEG NEG NEG NEG WeAR METALS method limit/base current history1 history2 ron ppm ASTM D5185m >15 3 2 8 Dhromium ppm ASTM D5185m >16 0 0 0 Silver ppm ASTM D5185m >6 2 1 2 2 cead ppm ASTM D5185m >6 2 1 2 2 cead ppm ASTM D5185m >6 1 1 2 2 cead ppm ASTM D5185m >6 1 1 2 2 cead ppm ASTM D5185m 5 1 1 2 2 Copper ppm ASTM D5185m 3	•						-
Water WC Method >.11 NEG NEG NEG Blycol WC Method Imit/base current history1 history2 ron ppm ASTM D5185m >15 3 2 8 Chromium ppm ASTM D5185m >4 0 0 <1	CONTAMINATIO	N	method	limit/base	current	history1	history2
Bilycol WC Method NEG NEG NEG NEG WEAR METALS method limit/base current history1 history2 ron ppm ASTM D5185m >15 3 2 8 Chromium ppm ASTM D5185m >4 0 0 <1	uel		WC Method	>4.0	<1.0	<1.0	<1.0
WEAR METALS method limit/base current history1 history2 ron ppm ASTM D5185m >15 3 2 8 Chromium ppm ASTM D5185m >16 0 0 <1	Nater		WC Method	>.11	NEG	NEG	NEG
ron ppm ASTM D5185m >15 3 2 8 Chromium ppm ASTM D5185m 0 0 <1	Glycol		WC Method		NEG	NEG	NEG
Dromium ppm ASTM D5185m >4 0 0 <1 Nickel ppm ASTM D5185m 0 0 0 0 Fitanium ppm ASTM D5185m 0 0 0 0 Silver ppm ASTM D5185m >6 2 1 2 ead ppm ASTM D5185m >6 <1	WEAR METALS		method	limit/base	current	history1	history2
No. Display O O O O Citanium ppm ASTM D5185m <1	ron	ppm	ASTM D5185m	>15	3	2	8
Titanium ppm ASTM D5185m <1 0 0 Silver ppm ASTM D5185m 0 0 0 Auminum ppm ASTM D5185m >6 2 1 2 ead ppm ASTM D5185m >9 0 <1	Chromium	ppm	ASTM D5185m	>4	0	0	<1
Silver ppm ASTM D5185m 0 0 0 0 Numinum ppm ASTM D5185m >6 2 1 2 ead ppm ASTM D5185m >9 0 <1	Nickel	ppm	ASTM D5185m		0	0	0
NuminumppmASTM D5185m>6212LeadppmASTM D5185m>90<1	Fitanium	ppm	ASTM D5185m		<1	0	0
Lead ppm ASTM D5185m >9 0 <1 4 Copper ppm ASTM D5185m >6 <1	Silver	ppm	ASTM D5185m		0	0	0
Dept ASTM D5185m >6 <1 <1 2 Tin ppm ASTM D5185m >4 <1	Aluminum	ppm	ASTM D5185m	>6	2	1	2
Tin ppm ASTM D5185m >4 <1 0 3 Vanadium ppm ASTM D5185m <1 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 3 4 3 Barium ppm ASTM D5185m 0 0 0 Adagnesic ppm ASTM D5185m 0 0 0 0 Adagnesium ppm ASTM D5185m 1731 1591 1907 Phosphorus ppm ASTM D5185m 237 232 282 Zinc ppm ASTM D5185m 2131 114 75 204 Solifur ppm ASTM D5185m 211 11 2 0 Solifur ppm ASTM D5185m >181 114 75 204 204 205	ead	ppm	ASTM D5185m	>9	0	<1	4
Aranadium ppm ASTM D5185m <1 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 3 4 3 Barium ppm ASTM D5185m 0 0 0 Adagnese ppm ASTM D5185m 0 0 0 0 Aggnesium ppm ASTM D5185m 0 0 0 0 0 Aggnesium ppm ASTM D5185m 0 0 0 0 0 Aggnesium ppm ASTM D5185m 1731 1591 1907 Phosphorus ppm ASTM D5185m 237 232 282 Ginc ppm ASTM D5185m 313 278 365 Solifur ppm ASTM D5185m >181 114 75 204 Socium	Copper	ppm	ASTM D5185m	>6	<1	<1	2
Deck ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 3 4 3 Barium ppm ASTM D5185m 0 0 0 Aolybdenum ppm ASTM D5185m 0 0 0 Aanganese ppm ASTM D5185m 0 0 0 Aggnesium ppm ASTM D5185m 8 7 14 Calcium ppm ASTM D5185m 8 7 14 Calcium ppm ASTM D5185m 237 232 282 Cinc ppm ASTM D5185m 3125 2677 3397 CONTAMINANTS method limit/base current history1 history2 Solicon ppm ASTM D5185m >181 114 75 204 Solicon ppm ASTM D5185m >20 0 0<	īn	ppm	ASTM D5185m	>4	<1	0	3
ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 3 4 3 Barium ppm ASTM D5185m 0 0 0 Manganese ppm ASTM D5185m 1 <1	/anadium	ppm	ASTM D5185m		<1	0	0
Boron ppm ASTM D5185m 3 4 3 Barium ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 1 <1	Cadmium	ppm	ASTM D5185m		0	0	0
Prime ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 1 <1	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m 1 <1 <1 2 Manganese ppm ASTM D5185m 0 0 0 0 Magnesium ppm ASTM D5185m 8 7 14 Calcium ppm ASTM D5185m 1731 1591 1907 Phosphorus ppm ASTM D5185m 237 232 282 Zinc ppm ASTM D5185m 313 278 365 Sulfur ppm ASTM D5185m 3125 2677 3397 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >181 114 75 204 Sodium ppm ASTM D5185m >221 1 2 0 Potassium ppm ASTM D5185m >20 0 0 2 INFRA-RED method limit/base current history1 history2 Soot %	Boron	ppm	ASTM D5185m		3	4	3
Anganese ppm ASTM D5185m 0 0 0 Magnesium ppm ASTM D5185m 8 7 14 Calcium ppm ASTM D5185m 8 7 14 Calcium ppm ASTM D5185m 1731 1591 1907 Phosphorus ppm ASTM D5185m 237 232 282 Zinc ppm ASTM D5185m 313 278 365 Sulfur ppm ASTM D5185m 3125 2677 3397 CONTAMINANTS method limit/base current history1 history2 Solicon ppm ASTM D5185m<>181 114 75 4 204 Sodium ppm ASTM D5185m<>21 1 2 0 0 2 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7624 5.5 5.4 6.0 Soot % % *ASTM D7624	Barium	ppm	ASTM D5185m		0	0	0
Aagnesium ppm ASTM D5185m 8 7 14 Calcium ppm ASTM D5185m 1731 1591 1907 Phosphorus ppm ASTM D5185m 237 232 282 Zinc ppm ASTM D5185m 313 278 365 Sulfur ppm ASTM D5185m 3125 2677 3397 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >181 114 75 204 Sodium ppm ASTM D5185m >21 1 2 0 Potassium ppm ASTM D5185m >20 0 0 2 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 0.1 0 0.1 Soot % % *ASTM D7624 5.5 5.4 6.0 Sulfation Abs/imm *ASTM D7624 5.5 5.4 6.0 > Cultation Abs/imm *ASTM	Nolybdenum	ppm	ASTM D5185m		1	<1	2
Description ppm ASTM D5185m 1731 1591 1907 Phosphorus ppm ASTM D5185m 237 232 282 Einc ppm ASTM D5185m 313 278 365 Sulfur ppm ASTM D5185m 3125 2677 3397 CONTAMINANTS method limit/base current history1 history2 Solicon ppm ASTM D5185m >181 114 75 204 Solicon ppm ASTM D5185m >181 114 75 204 Solicon ppm ASTM D5185m >21 1 2 0 Potassium ppm ASTM D5185m >20 0 0 2 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7624 5.5 5.4 6.0 Sulfation Abs/.mm *ASTM D7415 21.3 19.0 26.3 FLUID DEGR	langanese	ppm	ASTM D5185m		0	0	0
Phosphorus ppm ASTM D5185m 237 232 282 Zinc ppm ASTM D5185m 313 278 365 Sulfur ppm ASTM D5185m 3125 2677 3397 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >181 114 75 ▲ 204 Sodium ppm ASTM D5185m >181 114 75 ▲ 204 Sodium ppm ASTM D5185m >21 1 2 0 Potassium ppm ASTM D5185m >20 0 0 2 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 0.1 0 0.1 Sulfation Abs/cm *ASTM D7415 21.3 19.0 26.3 FLUID DEGRADATION method limit/base current history1 history2	<i>l</i> lagnesium	ppm	ASTM D5185m		8	7	14
Zinc ppm ASTM D5185m 313 278 365 Soulfur ppm ASTM D5185m 3125 2677 3397 CONTAMINANTS method limit/base current history1 history2 Solicon ppm ASTM D5185m >181 114 75 ▲ 204 Sodium ppm ASTM D5185m >181 114 75 ▲ 204 Sodium ppm ASTM D5185m >21 1 2 0 Potassium ppm ASTM D5185m >20 0 0 2 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 0.1 0 0.1 Ostration Abs/cm *ASTM D7624 5.5 5.4 6.0 Sulfation Abs/.1mm *ASTM D7415 21.3 19.0 26.3 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 12.8 10.8 16.8 <	Calcium	ppm	ASTM D5185m		1731	1591	1907
Sulfur ppm ASTM D5185m 3125 2677 3397 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >181 114 75 ▲ 204 Sodium ppm ASTM D5185m >181 114 75 ▲ 204 Sodium ppm ASTM D5185m >21 1 2 0 Potassium ppm ASTM D5185m >20 0 0 2 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 0.1 0 0.1 Soot % % *ASTM D7624 5.5 5.4 6.0 Sulfation Abs/.1mm *ASTM D7415 21.3 19.0 26.3 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 12.8 10.8 16.8	Phosphorus	ppm	ASTM D5185m		237	232	282
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >181 114 75 204 Sodium ppm ASTM D5185m >21 1 2 0 Potassium ppm ASTM D5185m >20 0 0 2 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 0.1 0 0.1 Soot % % *ASTM D7624 5.5 5.4 6.0 Sulfation Abs/.tmm *ASTM D7415 21.3 19.0 26.3 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.tmm *ASTM D7414 12.8 10.8 16.8 Acid Number (AN) mg KOH/g ASTM D8045 1.0 1.64 1.18 2.56	Zinc	ppm	ASTM D5185m		313	278	365
Silicon ppm ASTM D5185m >181 114 75 ▲ 204 Sodium ppm ASTM D5185m >21 1 2 0 Potassium ppm ASTM D5185m >20 0 0 2 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 0.1 0 0.1 Soot % % *ASTM D7624 5.5 5.4 6.0 Sulfation Abs/cm *ASTM D7415 21.3 19.0 26.3 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 12.8 10.8 16.8 Acid Number (AN) mg KOH/g ASTM D8045 1.0 1.64 1.18 2.56	Sulfur	ppm	ASTM D5185m		3125	2677	3397
Sodium ppm ASTM D5185m >21 1 2 0 Potassium ppm ASTM D5185m >20 0 0 2 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 0.1 0 0.1 Soot % % *ASTM D7624 5.5 5.4 6.0 Sulfation Abs/cm *ASTM D7415 21.3 19.0 26.3 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 12.8 10.8 16.8 Acid Number (AN) mg KOH/g ASTM D8045 1.0 1.64 1.18 2.56	CONTAMINANTS	\$	method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 0 0 2 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 0.1 0 0.1 Nitration Abs/cm *ASTM D7624 5.5 5.4 6.0 Sulfation Abs/.1mm *ASTM D7415 21.3 19.0 26.3 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 12.8 10.8 16.8 Acid Number (AN) mg KOH/g ASTM D8045 1.0 1.64 1.18 ▲ 2.56				>181			
INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 0.1 0 0.1 Nitration Abs/cm *ASTM D7624 5.5 5.4 6.0 Sulfation Abs/.tmm *ASTM D7415 21.3 19.0 26.3 FLUID DEGRADATION method limit/base current history1 history2 Dxidation Abs/.tmm *ASTM D7414 12.8 10.8 16.8 Acid Number (AN) mg KOH/g ASTM D8045 1.0 1.64 1.18 2.56	Sodium	ppm	ASTM D5185m	>21	1	2	0
Soot % % *ASTM D7844 0.1 0 0.1 Nitration Abs/cm *ASTM D7624 5.5 5.4 6.0 Sulfation Abs/.1mm *ASTM D7415 21.3 19.0 26.3 FLUID DEGRADATION method limit/base current history1 history2 Dxidation Abs/.1mm *ASTM D7414 12.8 10.8 16.8 Acid Number (AN) mg KOH/g ASTM D8045 1.0 1.64 1.18 2.56	Potassium	ppm	ASTM D5185m	>20	0	0	2
Abs/cm *ASTM D7624 5.5 5.4 6.0 Sulfation Abs/.1mm *ASTM D7415 21.3 19.0 26.3 FLUID DEGRADATION method limit/base current history1 history2 Dxidation Abs/.1mm *ASTM D7414 12.8 10.8 16.8 Acid Number (AN) mg KOH/g ASTM D8045 1.0 1.64 1.18 2.56	INFRA-RED			limit/base	current	history1	history2
Sulfation Abs/.1mm *ASTM D7415 21.3 19.0 26.3 FLUID DEGRADATION method limit/base current history1 history2 Dxidation Abs/.1mm *ASTM D7414 12.8 10.8 16.8 Acid Number (AN) mg KOH/g ASTM D8045 1.0 1.64 1.18 2.56	Soot %						
FLUID DEGRADATION method limit/base current history1 history2 Dxidation Abs/.1mm *ASTM D7414 12.8 10.8 16.8 Acid Number (AN) mg KOH/g ASTM D8045 1.0 1.64 1.18 2.56		Abs/cm	*ASTM D7624				
Dxidation Abs/.1mm *ASTM D7414 12.8 10.8 16.8 Acid Number (AN) mg KOH/g ASTM D8045 1.0 1.64 1.18 2.56	Sulfation	Abs/.1mm	*ASTM D7415		21.3	19.0	26.3
Acid Number (AN) mg KOH/g ASTM D8045 1.0 1.64 1.18 🔺 2.56	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
	Dxidation	Abs/.1mm	*ASTM D7414		12.8	10.8	16.8
	Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	1.64	1.18	2 .56
		mg KOH/g	ASTM D2896	5.4	2.56	3.69	2.01

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

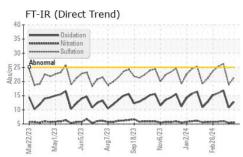
Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

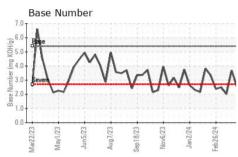
Submitted By: Tony Saint Marie

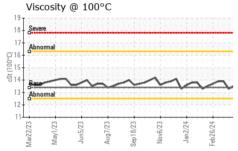


OIL ANALYSIS REPORT









		method	limit/base	current	history1	hist
Vhite Metal	scalar	*Visual	NONE	NONE	NONE	NON
ellow Metal	scalar	*Visual	NONE	NONE	NONE	NON
Precipitate	scalar	*Visual	NONE	NONE	NONE	NON
Silt	scalar	*Visual	NONE	NONE	NONE	NON
Debris	scalar	*Visual	NONE	NONE	NONE	NON
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NON
ppearance	scalar	*Visual	NORML	NORML	NORML	NOR
Ddor	scalar	*Visual	NORML	NORML	NORML	NOR
mulsified Water	scalar	*Visual	>.11	NEG	NEG	NEG
ree Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPER	TIES	method	limit/base	current	history1	hist
/isc @ 100°C	cSt	ASTM D445	13.4	13.5	13.3	13.9
GRAPHS						
Iron (ppm)				Lead (ppm)		
Severe			15-	Severe		
Abnormal		10001000	10-	Abnormal 🔨 👩		
	A		udd 5.			
man	rv	A	1	IV	ww	$\Delta \Gamma L$
		VVV	V		T 7 Y	VV
	0 00		0-	m m	m m m	
ar22/23	p18/23	lav6/23 -	0- 	ar22/23	wg7/23 - p18/23 - lov6/23 -	lan 2/24
Mar22/23 May1/23 Jun5/23 Jun5/23 May1/23	0,	Nov6/23 +	().	Chromium (D	(Aug7/23 - Sep18/23 - Nov6/23 -	Jan 2/24 -
Aluminum (ppm)	0,	Nov6/23 + Jan2/24 + Feit26/24 -	6-	Chromium (p		- Jan 2/24
Aluminum (ppm)	0,	Nov6/23 - Jan2/24 -	6-	Chromium (p		Jan2/24 -
Aluminum (ppm)	0,	Nov6/23	6-	Chromium (p		Jan2/24 -
Aluminum (ppm)	0,	Nor6/23	6-	Chromium (p		Jan2/24
Aluminum (ppm)	0,	VanG23	6- 5- 4- Щ3. 2-	Chromium (p		Jan2/24 -
Aluminum (ppm)	~	~~~	6- 5- 4 ي 2- 1-	Chromium (p	ipm)	~~~
Aluminum (ppm)	~~~	Nov6/23 - Nov6/23 - Nov6/23 - Jan2/24 - Jan2/24 - Jan2/24 - Selv26/24 - Selv26/26 - Selv26/26 - Selv26/24 - Selv26 - Selv26/24	6- 5- 4 ي 2- 1-	Chromium (p		~~~
Aluminum (ppm)	~	~~~	6- 5- 4 ي 2- 1-	Chromium (p	hug7/23 Sep18/23 Sep1	~~~
Aluminum (ppm)	~	~~~	6- 5- 4- <u>Ea</u> 3- 2- 1- 0- 2- 0-	Chromium (p	hug7/23 Sep18/23 Sep1	~~~
Aluminum (ppm)	~	~~~	6- 5- 4- 1- 0- 250- 200-	Chromium (p	hug7/23 Sep18/23 Sep1	~~~
Aluminum (ppm)	~	~~~	6- 5- 4- 1- 0- 250- 200-	Chromium (p	hug7/23 Sep18/23 Sep1	~~~
Aluminum (ppm)	~	~~~	6- 5- 4- <u>Ea</u> 3- 2- 1- 0- 2- 0-	Chromium (p	hug7/23 Sep18/23 Sep1	~~~
Aluminum (ppm)	~	~~~	د د د د د د د د د د د د د د	Chromium (p	hug7/23 Sep18/23 Sep1	~~~
Aluminum (ppm)		Jan 2/24	250 200 50 50 50 50 50	Chromium (p	ppm)	Jan2/24
Aluminum (ppm)		~~~	250 200 50 50 50 50 50	Chromium (p	hug7/23 Sep18/23 Sep1	~~~
Aluminum (ppm)	Sep 16/23	Jan 2/24	250 200 50 50 50 50 50	Chromium (p	Aug7/23 - Aug7/23 Sep 18/23 Sep 18/23 Mov6/23 Mov6/23 Aug7/23 Sep 18/23 Sep	Jan2.024
Abnormal Copper (ppm) Copper (ppm) Copper (ppm) Copper (ppm) Copper (ppm) Copper (ppm) Copper (ppm)	Sep 16/23	Jan 2/24	د	Chromium (p Chromium (p Severe Abnormal Silicon (ppm) Silicon (ppm) Silicon (ppm)	Aug7/23 - Aug7/23 Sep 18/23 Sep 18/23 Mov6/23 Mov6/23 Aug7/23 Sep 18/23 Sep	Jan2/24
Aluminum (ppm)	Sep 16/23	Jan 2/24	د	Chromium (p Chromium (p Severe Abnormal Silicon (ppm) Silicon (ppm) Silicon (ppm)	Aug7/23 - Aug7/23 Sep 18/23 Sep 18/23 Mov6/23 Mov6/23 Aug7/23 Sep 18/23 Sep	Jan2/24
Abnormal Copper (ppm) Copper (ppm) Copper (ppm) Copper (ppm) Copper (ppm) Copper (ppm) Copper (ppm) Copper (ppm) Copper (ppm) Copper (ppm)	Sep 16/23	Jan 2/24	د	Chromium (p Chromium (p Severe Abnormal Silicon (ppm) Silicon (ppm) Silicon (ppm)	Aug7/23 - Aug7/23 Sep 18/23 Sep 18/23 Mov6/23 Mov6/23 Aug7/23 Sep 18/23 Sep	Jan2/24
Abnormal Copper (ppm) Copper (ppm) Copper (ppm) Copper (ppm) Copper (ppm) Copper (ppm) Copper (ppm) Copper (ppm) Copper (ppm) Copper (ppm)	Sep 16/23	Jan 2/24	د	Chromium (p Chromium (p Severe Abnormal Silicon (ppm) Silicon (ppm) Silicon (ppm)	Aug7/23 - Aug7/23 Sep 18/23 Sep 18/23 Mov6/23 Mov6/23 Aug7/23 Sep 18/23 Sep	Jan 204
Aluminum (ppm)	Sep 16/23	Jan 2/24	250 200 200 50 50 50 6 100 50 6 100	Chromium (p Chromium (p Severe Abnormal Silicon (ppm) Silicon (ppm) Silicon (ppm)	Aug7/23 - Aug7/23 Sep 18/23 Sep 18/23 Mov6/23 Mov6/23 Aug7/23 Sep 18/23 Sep	Jan2.024



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

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